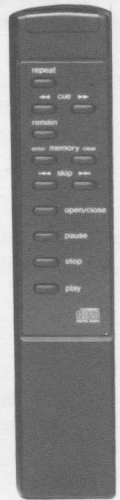


AUDIO DYNAMICS


CD-2000E

Compact Disc Player

Instruction Manual





COMPACT
disc
DIGITAL AUDIO



CAUTION

RISK OF ELECTRIC SHOCK
DO NOT OPEN






This symbol is intended to alert you of the presence of uninsulated dangerous voltage within the unit's enclosure that may be of sufficient magnitude to constitute a risk of electric shock to persons.

CAUTION

TO REDUCE THE RISK OF ELECTRIC SHOCK, DO NOT REMOVE COVER (OR BACK). NO USER-SERVICEABLE PARTS INSIDE. REFER SERVICING TO QUALIFIED SERVICE PERSONNEL.



This symbol is intended to alert you of the presence of important operating and maintenance instructions in the literature accompanying the unit.

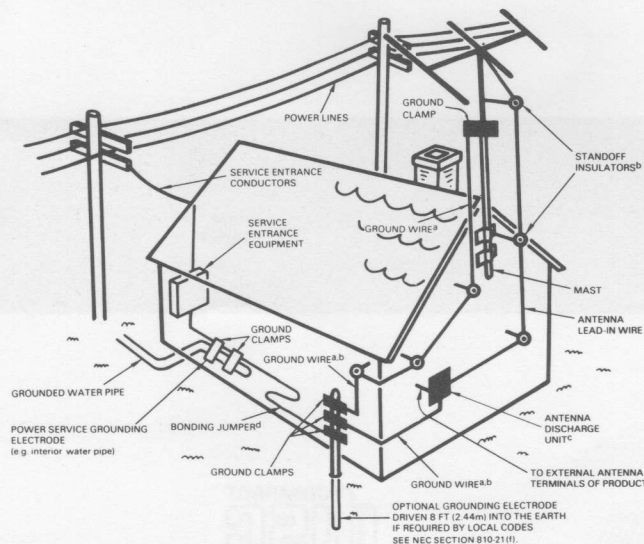
WARNING

TO PREVENT FIRE OR SHOCK HAZARD, DO NOT EXPOSE THIS APPLIANCE TO RAIN OR MOISTURE.

IMPORTANT SAFEGUARDS

1. Read Instructions — All the safety and operating instructions should be read before the appliance is operated.
2. Retain Instructions — The safety and operating instructions should be retained for future reference.
3. Heed Warnings — All warnings on the appliance and in the operating instructions should be adhered to.
4. Follow Instructions — All operating and use instructions should be followed.
5. Water and Moisture — The appliance should not be used near water - for example, near a bathtub, washbowl, kitchen sink, laundry tub, in a wet basement, or near a swimming pool.
6. Carts and Stands — The appliance should be used only with a cart or stand that is recommended by the manufacturer.
7. Wall or Ceiling Mounting — The appliance should be mounted to a wall or ceiling only as recommended by the manufacturer.
8. Ventilation — The appliance should be situated so that its location or position does not interfere with its proper ventilation. For example, the appliance should not be situated on a bed, sofa, rug, or similar surface that may block the ventilation openings; or, placed in a built-in installation, such as a bookcase or cabinet that may impede the flow of air through the ventilation openings.

FIGURE 1
EXAMPLE OF ANTENNA GROUNDING ACCORDING TO NATIONAL ELECTRICAL CODE INSTRUCTIONS CONTAINED IN ARTICLE 810-"RADIO AND TELEVISION EQUIPMENT"



- a — Use No. 10 AWG (5.3 mm²) copper, No. 8 AWG (8.4 mm²) aluminum, No. 17 AWG (1.0 mm²) copper-clad steel or bronze wire, or larger, as a ground wire.
- b — Secure antenna lead-in and ground wires to house with stand-off insulators spaced from 4-6 feet (1.22-1.83m) apart.
- c — Mount antenna discharge unit as close as possible to where lead-in enters house.
- d — Use jumper wire not smaller than No. 6 AWG (13.3mm²) copper, or the equivalent, when a separate antenna-grounding electrode is used. See NEC Section 810-21(f).

9. Heat — The appliance should be situated away from heat sources such as radiators, heat registers, stoves, or other appliances (including amplifiers) that produce heat.

10. Power Sources — The appliance should be connected to a power supply only of the type described in the operating instructions or as marked on the appliance.

11. Grounding or Polarization — Precautions should be taken so that the grounding or polarization means of an appliance is not defeated.

12. 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 appliance.

13. Cleaning — The appliance should be cleaned only as recommended by the manufacturer.

14. Power Lines — An outdoor antenna should be located away from power lines.

15. Outdoor Antenna Grounding — If an outside antenna is connected to the receiver, be sure the antenna 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 No. 70-1984, provides information with respect to proper grounding of the antenna 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. See Figure 1.

16. Nonuse Periods — The power cord of the appliance should be unplugged from the outlet when left unused for a long period of time.

17. Object and Liquid Entry — Care should be taken so that objects do not fall and liquids are not spilled into the enclosure through openings.

18. Damage Requiring Service — The appliance should be serviced by qualified service personnel when:

- A. The power-supply cord or the plug has been spilled into the appliance; or
- B. Objects have fallen, or liquid has been spilled into the appliance; or
- C. The appliance has been exposed to rain; or
- D. The appliance does not appear to operate normally or exhibits a marked change in performance; or
- E. The appliance has been dropped, or the enclosure damaged.

19. Servicing — The user should not attempt to service the appliance beyond that described in the operating instructions. All other servicing should be referred to qualified service personnel.

CLASS 1 LASER PRODUCT

AUDIO DYNAMICS certifies that this equipment conforms to DHHS regulation No. 21 CFR, Chapter 1, Subchapter J.

Caution! Use of the controls or adjustments or performance of procedures other than those specified herein may result in hazardous radiation exposure.

In the space provided below, record the serial number of your unit, located on the back of the cabinet.

Retain this number for future reference.

Compact Disc Player AUDIO DYNAMICS CD-2000E

Serial No. _____

Precautions

On safety

Check that the operating voltage of your unit meets the voltage of your local power supply. Refer to page 6 for more detail.

Dew

When a cold room is heated up or when the CD player is moved from a cold location into a warm one, moisture may condense on the laser pickup's lens, preventing correct playback.

Remove the disc and leave the CD player turned on for about one hour to evaporate this moisture. Then the CD player will operate correctly.

Power cord

To disconnect the cord pull it out by grasping the plug, not the cord itself. Unplug the unit from the wall outlet for prolonged nonuse periods.

Location

Do not install the unit in a location near heat, e.g., radiators, air ducts, or in a place directly exposed to sunlight, dust, vibration or shock.

Should any liquid or object fall into the cabinet, unplug the unit immediately and have it checked by qualified personnel.

There are no user-serviceable parts inside the unit; do not open the cabinet.

Installation

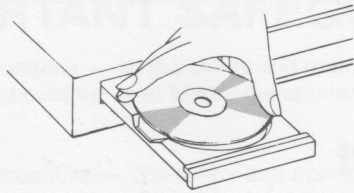
Unpacking

Unpack your unit carefully. Be sure to remove the accessories contained in the carton. After unpacking, inspect your unit carefully for signs of damage. If damage is found, contact your authorized AUDIO DYNAMICS dealer at once.

Do not throw away the carton or associated packing materials. They are ideal for moving, and, in the event that servicing is needed, will be required for shipment.

Handling a disc

Handle the disc by its edge. Do not touch the rainbow-colored side, which faces down.



Store the disc in the original case.

Do not stick paper or tape on the disc.

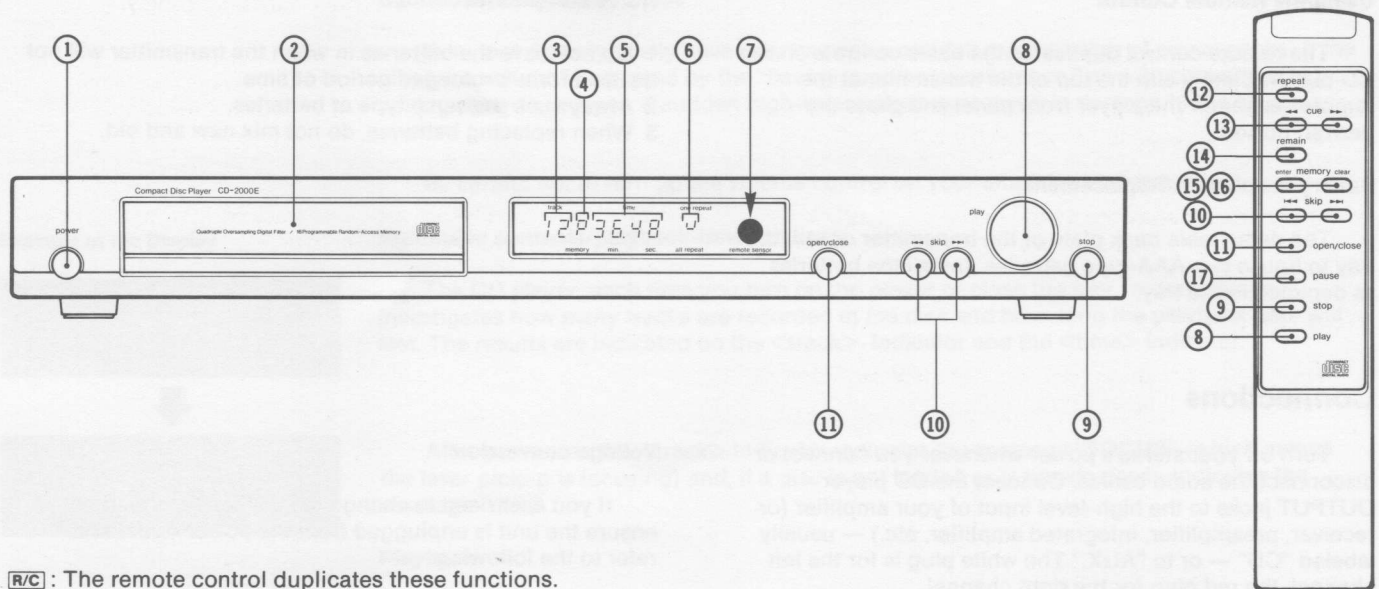
Do not expose the disc to sunlight or heat.

Before playing, clean the disc with a soft cloth, always wiping from center to edge, not in a circle. Do not use solvents, cleaners or anti-static solutions used for analog discs.

Features

- 1) Versatile operation with multi-function display, supplying detailed information.
- 2) 12-function remote control for maximum flexibility, which duplicates the principal front-panel controls.
- 3) 16-track random-access programmability.
- 4) Triple-beam laser for precise tracking. The center beam reads the music and the other two beams monitor and correct for mistracking. True 16-bit, digital filtering with 4X oversampling, and a 3rd-order Bessel filter for minimum phase shift.

Controls and Functions



[R/C]: The remote control duplicates these functions.

① <power> button

Push to turn the player on and off.

② Disc tray

Accommodates a compact disc including 3" CD (mini CD), rainbow side down. Opened or closed by the <open/close> or <play> button.

③ <track> indicator

Indicates the track number to be played. Blinks during a pause.

④ <memory> indicator [M]

Blinks when the <enter> button is pressed for programming a track into the memory. Remains lit during programmed play.

⑤ <time> indicator [min/sec]

Regularly shows the elapsed playing time of the track in minutes and seconds. Also describes operating conditions ("PLAY," "FOCUS," etc.).

⑥ <one repeat/all repeat> indicators

The <one repeat> lights when playing one track repeatedly; the <all repeat> lights when playing the entire (or memory-programmed) contents of the disc repeatedly.

⑦ Remote sensor

Accepts infrared command from the supplied remote control unit.

⑧ <play> button [R/C]

Press to start playing.

⑨ <stop> button [R/C]

Press to stop playing. When the player is in the stop mode, the red lamp on this button illuminates.

⑩ <skip> buttons [R/C]

Use to skip back and forth through the compact disc. Press ◀◀ [backward] to skip back to a previous track or the beginning of the present track. Press ▶▶ [forward] to skip to a later track. For quick access, press and hold the button.

⑪ <open/close> button [R/C]

Press to open or close the tray.

The following controls and functions are provided only on the remote control.

⑫ <repeat> button

Press this button to repeatedly listen to the particular track (one repeat) or to the entire (or memory-programmed) contents of the disc (all repeat).

⑬ <cue> buttons

Used to continuously return or advance the pickup for listening from any position on the disc. Press ◀◀ [reverse] to return to any position; press ▶▶ [fast forward] to advance. For quick return or advance, press and hold the button.

⑭ <remain> button

The <time> indicator will show the remaining playing time of the disc. Note that this button is inoperable during programmed tracks.

⑮ <memory enter> button

Use to begin programming and to enter the programmed tracks.

⑯ <memory clear> button

Press one time to cancel the preceding entry of the track number when programming. If you press this button two times during the playback of programmed tracks, all programmed contents will be erased.

⑰ <pause> button

Press to set the player in pause ("waiting") when playing. Playing resumes at the next press of the <pause> or <play> button.

Using the Remote Control

The remote control duplicates the basic controls on the CD player. Simply aim the top of the transmitter at the remote sensor on the player front panel and press the desired button.

Battery Installation/Replacement

The detachable back plate of the transmitter covers the tray to house two AAA-type batteries. Install the batteries as depicted in the tray.

Connections

Turn off your stereo's power whenever you connect or disconnect the audio cables. Connect the CD player OUTPUT jacks to the high-level input of your amplifier (or receiver, preamplifier, integrated amplifier, etc.) — usually labeled "CD" — or to "AUX." The white plug is for the left channel, the red plug for the right channel.

Note: Do not connect the CD player to the "PHONO" jacks on the amplifier.

Before connecting, make sure that the shipping lock at the bottom has been released see "Installation," PAGE 3.

Power requirements

Power requirements for electrical equipment differ from area to area. Please ensure that your unit meets the power requirements in your area. If in doubt, consult a qualified electrician.

100V, 50/60 Hz for Japan,
120V, 60 Hz for U.S.A. and Canada
220V, 50 Hz for Europe except U.K.
240V, 50 Hz for U.K. and Australia.

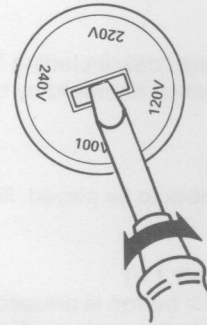
Notes on batteries

- 1 Do not leave the batteries in when the transmitter will not be used for a prolonged period of time.
- 2 Always use the same type of batteries.
- 3 When replacing batteries, do not mix new and old.

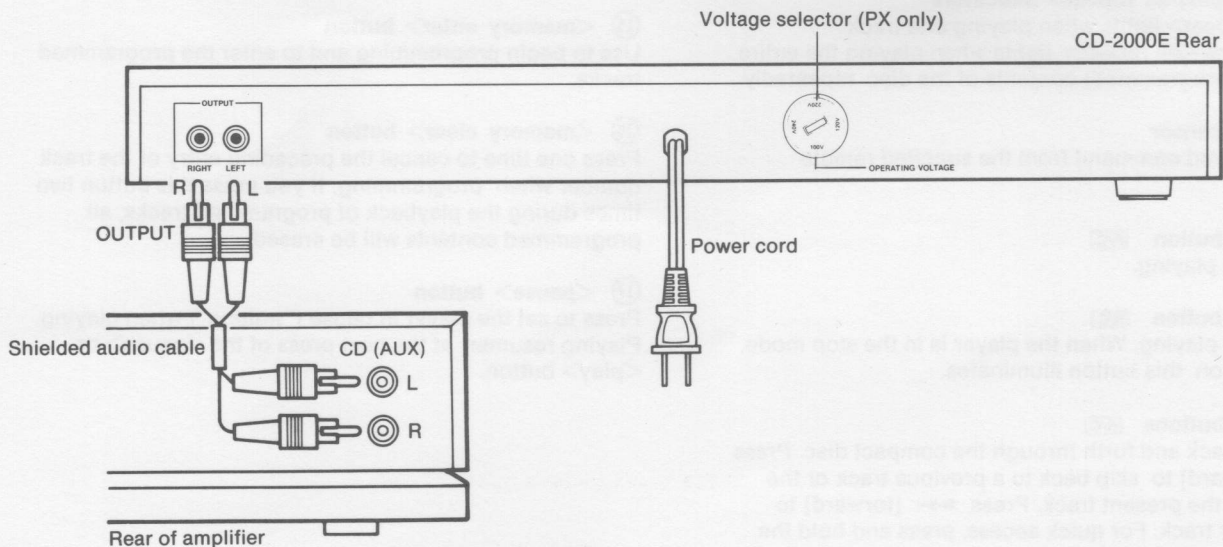
Voltage conversion

If you ever need to change the voltage setting, first ensure the unit is unplugged from the power outlet and refer to the following:

Rotate the voltage selector with a screwdriver so that the correct voltage is set at the bottom.



Note: The voltage selector is provided for PX version only.



Basic Operation

Caution on Playback Volume

Compact discs typically have very low noise and full reproduction of signal peaks. If the playback volume is adjusted by the "background noise reference," as with conventional analog records or tapes, a sudden high-level output may result in damage to the speaker system.

Be careful not to turn up the volume control on your amplifier inadvertently.

Automatic contents/playback-time totalizer

The CD player, each time you turn on the power or close the tray, automatically investigates how many tracks are recorded in the disc and how long the playback time will last. The results are indicated on the <track> indicator and the <time> indicator.

After power-on, the <track> indicator indicates the message "FOCUS" (which means the laser pickup is focusing) and, if a disc is not loaded or is upside down, indicates the message "dISC."

Playback

1 Press the POWER button.

The total track numbers and playing time will be indicated in the <track> and <time> indicators if the disc has been loaded. If the disc has not been loaded, or is upside down, "dISC" will be shown.

2 To load the compact disc, press the <open/close> button to open the disc tray.

3 Holding the compact disc by the edge, label side facing up, and place it in the tray.

4 To start playback at once, press the <play> button.

If you want only to load the disc for later playback, press the <open/close> button instead of the <play> button, or lightly push the disc tray away from you. The disc tray then closes and the player will wait to play the disc.

To interrupt playback, press the <pause> button. The <track> indicator will blink.

To release the pause, press the <play> or <pause> button. Playback will resume from the same part in the track.

When playback of the last track is completed, the <time> indicator will give the message "FINISHED."

5 To stop playback, press the <stop> button.

6 To open the tray, press the <open/close> button.

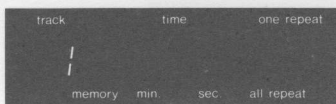
Example of the Display



2



4



Skipping Over Tracks

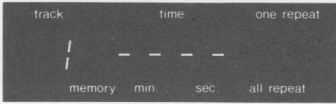
Use the <skip> buttons to jump tracks to a desired one.

To skip to a later track, press the ►► [forward] skip button as many times as desired.

To skip to a previous track, press the ◀◀ [backward] skip button similarly. Note that the first-time push places you at the beginning of the present track.

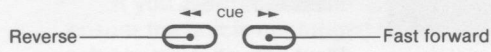
Example of the Display

At "skipping"



Skipping can be used during pause or stop as well. After skipping press the <play> or <pause> button to resume playback.

Note: To "move about" within the track, for searching the desired phrase or solo part for instance, the <cue> buttons on the remote control should be used.



Repeat Playback

Use of the <repeat> button allows you to repeat playback of one track or the entire disc.

To repeat the desired track [<one repeat> indicated]

While listening to the track, press the <repeat> button so that the <one repeat> indicator lights up. You can skip to the desired number by the <skip> buttons.



To repeat the entire disc [<all repeat> indicated]

Press the <repeat> button two times so that the <all repeat> indicator lights up.

To resume normal playback, press the <repeat> button again until the <one repeat> or <all repeat> indicator goes off.



To see the Remaining Playing Time

A few seconds after pressing the <remain> button, the <time> indicator will show the remaining playing time of the disc. This feature is inoperative during playing the memory-programmed tracks.



Memory Playback Operation

You can program up to 16 tracks in any order.

To Program Memory

This procedure can be made during a pause or stop as well as while playing. It will not interrupt listening.

First Memory Programming

Example of the Display

1 Press the <enter> button.



The <memory> indicator starts to blink and the <time> indicator shows "00," indicating that the unit is ready to accept the first program.

2 Skip to the desired track to be programmed, using the <skip> buttons, e.g., track number 2.



3 Press the <enter> button.



The <memory> indicator will stop blinking and the <time> indicator will show "01," the first program. Track number 2 has been programmed into the first memory.

Second Memory Programming

4 Skip to the desired track to be programmed, e.g., track number 4.



The <memory> indicator starts to blink, indicating the unit is ready to accept the second program.

5 Press the <enter> button.



The <memory> indicator will stop blinking and the <time> indicator will show "02," the second program. Track number 4 has been programmed into the second memory.

Third Memory Programming

6 Skip to the desired track to be programmed, e.g., track number 1.



The <memory> indicator starts to blink, indicating the unit is ready to accept the third program.

7 Press the <enter> button.



The <memory> indicator will stop blinking and the <time> indicator will show "03," the third program. Now track number 1 has been programmed into the third memory.

After step 7, tracks 2, 4, and 1 have been programmed for playing in the order. By repeating the enter-skip-set cycle, you can program up to 16 tracks into the memory.

To revoke the entry of a track number in steps 2, 4, and 6, press the <clear> button once and make a new choice.

To Play The Programmed Tracks

Press the <play> (or <pause>) button and the <memory> indicator will stop blinking.

You can use the <skip>, <cue> and <repeat> buttons in the usual manner except they affect the programmed tracks only.

To Clear (Erase) All The Programmed Tracks

Press the <clear> button two times. Or turn off the player or open the tray to clear the programs.



Specifications

Format	Compact disc digital audio system
Conversion	16-bit linear
Filter	Quadruple-oversampling digital + 3rd-order filtering
Error correction	CIRC
Frequency response ...	±0.5dB, 20 to 20,000 Hz
Total harmonic distortion	0.005%, 1kHz
Dynamic range	96dB
Wow and flutter	Unmeasurably low
Output level	2V rms
Output impedance	600 ohms
Separation	90dB, 1kHz
S/N	96dB, IHF-A weighted
Power requirement	AC 100V/120V/220V/240V, 50/60 Hz (PX version) AC 120V, 60Hz (U.S.A. and Canada)
Power consumption	11W
Dimensions	17" x 2" x 12-5/8" (430mm x 53.5mm x 320mm)
Weight	8 lbs 4 oz/3.8 kg

Specifications are subject to change without notice.

Troubleshooting

Problem/Cause

Player won't turn on.

Power cord unplugged from outlet or system not on.

Music does not start when <play> is pressed. "DISC" indicated.

Turn disc over. Contamination, scratches, finger prints on disc.

Memory programming erased.

Disc tray opened or power disconnected.

For customers in the U.K. — Important for your safety

The wires in this mains lead are coloured in accordance with the following code:

Blue: Neutral
Brown: Live

As the colours of the wires in the mains lead of this apparatus may not correspond with the coloured markings identifying the terminals in your plug, proceed as follows: The wire which is coloured blue must be connected to the terminal which is marked by the letter N or coloured black.

The wire which is coloured brown must be connected to the terminal which is marked with the letter L or coloured red.

Warning:

Do not connect any wire to the larger pin marked E or \perp when wiring a plug. Ensure that all terminals are securely tightened and that no loose strands of wire exist.

WARRANTY and SERVICE

AUDIO DYNAMICS warrants this product to be free from defective materials and workmanship for a period of one (1) year from the date of first consumer purchase from an authorized dealer. If you are uncertain as to whether a dealer is authorized, contact us. The unit must be delivered by you or your representative with proof of purchase to one of our authorized service agencies.

Please save your sales slip, and please return the warranty registration card (doing so will establish a convenient proof-of-purchase date in case your sales slip gets lost). Note that not doing so doesn't affect your rights under this warranty; we ask you to simply because it's helpful to us.

For shipping, pack the unit carefully, in its original or other suitable packing. All merchandise must be prepaid and will be returned freight-paid. Include your or the sender's name and address, telephone number, and reason for return. Insure your shipment, and in the US use UPS or similar carrier, not Parcel Post.

FOR INFORMATION ON YOUR NEAREST SERVICE STATION, contact your authorized dealer or call (round the clock, 7 days a week) 1-800-447-4700; have your Zip Code available for the operator.

For non-service problems and questions NOT covered in this manual, call (US Eastern time, business hours) our Customer Service, at 1 (617) 964-3210.

This warranty automatically transfers to subsequent owners, but does not extend to any of our products that have been subject to misuse, abuse, modification, neglect, accident, incorrect wiring not our own, or to use in violation of operating instructions furnished by us. Nor

does it extend to any units altered or repaired for warranty defect by anyone other than an authorized service agency, nor to units with defaced, removed, or modified serial numbers. It is limited to, at our discretion, repair or replacement of the product.

This warranty does not cover any incidental or consequential damages and is in lieu of all other warranties expressed or implied, including those of merchantability and fitness, and no representative or person is authorized to assume for us any other liability in connection with the sale of our products.

Some states don't allow limitations on how long an implied warranty lasts and/or on exclusion or limitation of incidental or consequential damages, so the above limitations or exclusions may not apply to you. This warranty gives you specific rights; you may also have other rights, which vary from state to state.

For products purchased outside the USA, this warranty is valid only in the country of purchase and the USA.

NOTE again: For information on your NEAREST US SERVICE STATION, contact your authorized dealer or call anytime 1-800-447-4700; have your Zip Code available for the operator.

AUDIO DYNAMICS

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