



Owner's Manual Manuel d'Installation Bedienungsanleitung Gebruikershandleiding Manual del Usuario Manuale delle Istruzioni Manual do Proprietário Bruksanvisning

IMPORTANT SAFETY INSTRUCTIONS

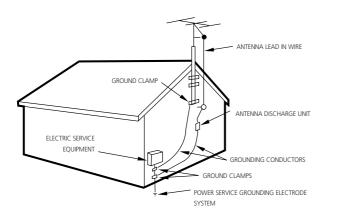
- Save these instructions for later use.
- Follow all warnings and instructions marked on the audio equipment.
- 1 Read instructions All the safety and operating instructions should be read before the product is operated.
- 2 Retain instructions The safety and operating instructions should be retained 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.
- **9** 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. For products intended to operate from battery power, or other sources, refer to the operating instructions.
- **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.

Example of Antenna Grounding as per National Electrical Code, ANSI/NFPA 70



- **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.
- **19 Servicing** Do not attempt to service this product yourself as opening or removing covers may expose you to dangerous voltage or other hazards. Refer all servicing to qualified service personnel.
- **20 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.
- **21 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.
- **22 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.
- **23 Wall or Ceiling Mounting** The product should be mounted to a wall or ceiling only as recommended by the manufacturer.
- 24 Heat The product should be situated away from heat sources such as radiators, heat registers, stoves, or other products (including amplifiers) that produce heat.

IMPORTANT SAFETY INSTRUCTIONS



WARNING

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



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 MAY BE 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.

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) equal to, or greater than, shown below. Left and Right Panels : 10 cm

Rear Panel : 10 cm Top Panel : 50 cm

BEFORE USE

READ THIS BEFORE OPERATION

- Choose the installation location of your unit carefully. Avoid placing it in direct sunlight or close to a source of heat. Also avoid locations subject to vibrations and excessive dust, heat, cold or moisture.
- The ventilation holes should not be covered. Make sure there is at least 50 cm of space above and at least 10 cm of space beside the amplifier/receiver. Do not place a CD player or other equipment on top of the amplifier/receiver.
- Do not open the cabinet as this might result in damage to the circuitry or electrical shock. If a foreign object should get into the set, contact your dealer.
- When removing the power plug from the wall outlet, always pull directly on the plug, never yank the cord.
- The ventilation should not be impeded by covering the ventilation openings with items, such as newspapers, table-cloths, curtains, etc.
- No naked flame sources, such as lighted candles, should be placed on the apparatus.
- The apparatus should not be exposed to dripping or splashing and no objects filled with liquids, such as vases, should be placed on the apparatus.
- This apparatus is designed to be used in moderate climates.

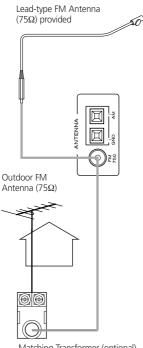
Important Safety Instruction
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ABOUT THE POWER SWITCH

This unit is not equipped with a primary power switch. Even when the unit's STANDBY/ON button is set to STANDBY (off). the power supply to this unit is not completely turned off. If you wish to completely turn the power off, disconnect the power cord from the household AC outlet.

CONTENTS

CONNECTING ANTENNAS



Matching Transformer (optional)

FM INDOOR ANTENNA

In an area with strong FM signals, the "T"-type FM antenna provided is sufficient.

Extend this into a "T" shape and connect the two wires at the base of the "T" to the provided matching transformer, as shown. After completing connection, plug the transformer into the "FM 75Ω " socket. Extend the top of the "T" and fix with thumb tacks, or the like, to a wall or window frame for the best possible reception.

FM OUTDOOR ANTENNA

In an area where FM signals are weak, it will be necessary to use a 75-ohm unbalanced-type outdoor FM antenna. Generally, a 3- element antenna will be sufficient; if you live in an area where the FM signals are particularly weak, it may be necessary to use one with 5 or more elements. Connect the coaxial cable of the antenna to the matching transformer as shown. After completing connection, plug the transformer into the "FM 75 Ω " socket.

HOW TO CONNECT A COAXIAL CABLE TO THE MATCHING TRANSFORMER

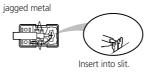
1 Strip the cable and dress it as shown.



2 Press both side tabs outward to remove the cover.



3 Wrap the core conductor around the central metal fixture as shown. Crimp the jagged metal fixtures so they hold the braided portion using pliers, etc. Put the cover back in place.



AM INDOOR LOOP ANTENNA

The high-performance AM loop antenna provided with the receiver is sufficient for good reception in most areas. Connect the loop antenna's wires to the AM antenna terminals as shown.

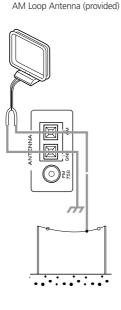
Place the antenna on a shelf, for example, or hang it on a window frame, etc., in the direction which gives the best reception, as far away as possible from the entire system, speaker cords and the power cord, to prevent unwanted noise.

AM OUTDOOR ANTENNA

If the AM loop antenna provided does not deliver sufficient reception (because you are too far from the transmitter or in a concrete building, etc.), it may be necessary to use an outdoor AM antenna. Use an insulated wire more than 15 ft (5 m) long, strip one end, and connect this to the terminal as shown. The antenna wire should be strung outdoors or indoors near a window. For better reception, connect the GND terminal to a reliable ground.

NOTE

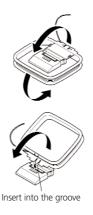
Even when using an outdoor AM antenna, do not disconnect the AM loop antenna.



CONNECTING ANTENNAS

ASSEMBLING THE AM LOOP ANTENNA

- **1** Rotate the outer frame of the antenna
- 2 Insert the bottom edge of the outer frame into the groove on the stand.
- 3 Extend the antenna cord





CONNECTING SPEAKER SYSTEMS

CAUTION

To avoid damage the speakers by inputting a sudden high-level signal, be sure to switch the power off before connecting the speakers.

Connect the cable from each speaker to the corresponding terminal on the rear of the receiver.

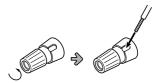
- Most speaker cables have different markings, textures or colors to help you tell the difference between
 negative and positive.
- Be sure to connect the positive (+) terminal on each speaker to the positive (+) terminal on the receiver. Similarly, connect the negative (-) terminal on the speaker to negative (-) terminal on the receiver.

NOTES

• Use speakers with a nominal impedance of 8 ohms or more.

HOW TO CONNECT

- 1 Strip back the cable covering by about 1 cm and twist the wire strands together.
- **2** Turn the terminal cap counterclockwise to loosen it. The speaker terminal caps cannot be fully removed from the base.
- 3 Insert the wire into the terminal fully and turn the terminal cap clockwise to securely connect it.
- 4 Make sure it is fastened firm by pulling the cable lightly.



CAUTION

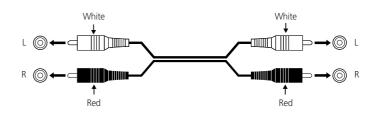
- Do not plug the power cord of any component into AC outlets and do not turn their POWER switches on until all connections have been performed.
- The cable connectors should be fully inserted into the jacks. Loose connections may cause hum and noise.
- Read the instructions for each component you intend to use with the receiver.

AUDIO SIGNAL JACKS

AUX IN jacks Connect the Auxiliary output jacks to the AUX IN jacks.

TAPE (IN/OUT) jacks

- Connect the TAPE jacks to the cassette deck.
- Connect the cassette deck output (LINE OUT) jacks to the IN jacks.
- Connect the cassette deck output (LINE IN) jacks to the OUT jacks.



AUDIO CONNECTION CORDS

To make these connections, use interconnect cords with RCA plugs. Make sure that you connect the white pin-plug to the white jacks (left) and the red pin-plug to the red jacks (right).

CONNECTING THE PRE OUT JACKS

Since subwoofer signals are not amplified, use a subwoofer with a built-in amplifier or connect it to the amplifier connected to this unit.

NOTE

• If a speaker is connected directly to the PRE OUT jack without an amplifier connected, no sound comes from the speaker.

CONNECTING THE AC POWER

Be sure to connect the power cord to an AC outlet which supplies the correct voltage.

• Hold the power plug when plugging or unplugging the power cord.

CONNECTING VIDEO EQUIPMENT

AUDIO SIGNAL JACKS

- Connect the video deck (VCR) LINE output (AUDIO OUT) jacks to the IN (VIDEO 1) jacks, and the video deck (VCR) LINE input (AUDIO IN) jacks to the OUT (VIDEO 1) jacks.
- Connect the cable / satellite receiver AUDIO OUTPUT jacks to the VIDEO 2 jacks.
- Connect the DVD player's analogue Left and Right AUDIO OUTPUT jacks to the DVD jacks.

VIDEO SIGNAL JACKS

- Connect the TV monitor VIDEO IN jack to the MONITOR OUT jack.
- Connect the video deck (VCR) VIDEO OUT (VIDEO) jack to the IN (VIDEO 1) jack. Connect the video deck (VCR) VIDEO IN jacks to the OUT (VIDEO 1) jack.
- Connect the cable / satellite receiver VIDEO OUTPUT jacks to the VIDEO 2 IN jack.
- Connect the DVD player or Decoder VIDEO OUTPUT jacks to the DVD IN jacks.

S-VIDEO SIGNAL JACKS

- Connect the TV monitor S-VIDEO IN jack to the MONITOR OUT jack.
- Connect the video deck (VCR) S-VIDEO OUT jack to the S-VIDEO VIDEO 1 IN jack. Connect the video deck (VCR) S-VIDEO IN jack to the S-VIDEO VIDEO 1 OUT jack.
- Connect the cable / satellite receiver player S-VIDEO OUTPUT jacks to the VIDEO 2 IN jack.
- Connect the DVD or Decoder S-VIDEO OUTPUT jacks to the S-VIDEO DVD IN jack.

NOTES

- The FUNCTION (source) selector switch simultaneously selects both the composite and S-VIDEO sockets for each video input.
- This unit's S-VIDEO (IN/OUT) jacks and VIDEO (IN/OUT) pin jacks have independent circuit structures, so that video signals input from the S-VIDEO jacks are only output from the S-VIDEO jack outputs and video signals input from the VIDEO pin jacks are only output from the VIDEO pin jack outputs.

DOLBY DIGITAL (AC-3)/DTS/PCM DIGITAL IN JACKS

- If the DVD player or Decoder is provided with either a coaxial or optical digital output, connect to
 respectively DVD Coaxial or Digital input.
- If a Digital music source, such as MiniDisc or MP3 player is provided an optical digital output, connect to AUX Digital input.
- When an optical connection is used for connection, remove the caps protecting both ends of the optical cable and the connectors. Remove the protective cap from the input socket.

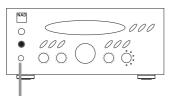
DIGITAL OUT (OPTICAL AND COAXIAL)

Connect the coaxial or optical digital input on CD or MiniDisk Recorder to the coaxial respectively
optical Digital output of the L76.

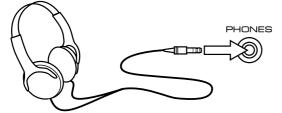
NOTES

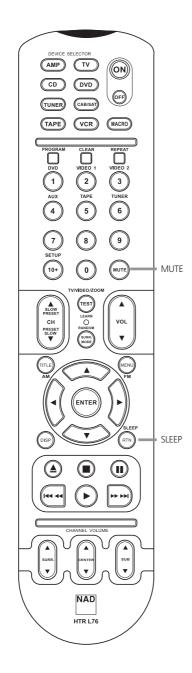
Do not connect both the coaxial and optical Digital Outputs to the corresponding Digital inputs on the same recording device.

AUDIO OPERATIONS



PHONES





NOTES

The following points apply throughout the "Audio Operations" sections unless otherwise noted. To simplify explanations, instructions refer to names of buttons and controls on the front panel, making no mention of the use of remote control unit.

PRIVATE LISTENING

For private listening, insert the headphones (1/4-inch plug) into the PHONES jack.

NOTE

When playing movie or music with 5.1 channels through Dolby Digital or DTS, multi-channel signal will be automatically downmixed to 2-channel stereo. VFL Display will show 'Digital stereo' icon or 'DTS stereo' icon. The output via speakers will be muted.

MUTING BUTTON (ON THE REMOTE CONTROL UNIT)

Press this to mute the sound from the speakers and headphones when answering the telephone, etc. To restore the original volume, press the MUTING button again. While Muting is engaged, the Display will say "MUTE".

SLEEP TIMER OPERATION

SLEEP Timer Function (on the Remote Control Unit)

This function allows you to preprogram the receiver to switch its own power off automatically. You can then enjoy the audio/video system for a specified amount of time without having to worry about turning the unit off later. Each press of the SLEEP button changes the time indication by 10 minutes.

SLEEP 90	\rightarrow	SLEEP 80	>	SLEEP 10	
	Rele	ased conditior	n 🔶		

To let the remaining time (until power off) appear on the display while the sleep timer is engaged, press the SLEEP button once.

WHEN TO USE RESET SWITCH

- 1 When this system is subjected to an electrical shock.
- **2** When the power is irregular. In these cases, try the following (in power standby mode.):



Press the RESET switch lightly once or twice with a pencil or ballpoint pen

NOTE

When the RESET switch is pressed, all the memory will be cancelled.

ENGLISH

Analog

AUDIO OPERATIONS

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AUDIO ADJUSTMENTS

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BASIC OPERATIONS

- **1** Press the POWER button to ON.
- 2 Select the desired source with the Source Selector. An indicator for the selected source lights up.
- 3 Select the desired surround mode with the SURROUND MODE buttons. (The SURROUND indicator
 - lights in the display.)
 - Refer to available surround modes. (page 15-16).
 - Refer to OSD surround mode. (page 21).
- 4 Start playing the source component.
- **5** Adjust the tone as required with the BASS and TREBLE tone controls. Adjust the balance between the left and right channels with the BALANCE control.
- 6 Gradually turn up the volume to the required level with the MASTER VOLUME control.
- 1 POWER STANDBY/ON Button Press this button to turn the power on. Press it again to turn the system off (power standby mode). The STANDBY indicator lights up in power standby mode and goes out when this unit is turned on.
- 2 BASS/TREBLE Tone Controls These two tone controls BASS and TREBLE can be used to obtain a "flat" frequency response or a tone which suits your individual listening preference. The Bass control adjusts low frequencies and the TREBLE control adjusts the high frequencies.
- **3 BALANCE Control** This control is used to adjust the balance between the left and right channels. Normally set to the center position.
- **4** MASTER VOLUME Control Adjust the overall sound volume from the front, center, sub woofer and rear speakers with this control.
- 5 FM MUTE/MONO This button combines two functions, it switches the tuner from stereo to mono and disengages the mute circuitry at the same time. The muting circuit will mute the Tuner in between radio stations when searching or tuning. If FM broadcasts with weak signal strength are received, the FM muting function works automatically to cut the signals, eliminating loud noise.
- 6 SURROUND MODE Button Surround mode changes follows whenever you press this button.
- Refer to available surround modes. (page 15-16)
- Refer to OSD surround mode. (page 21)

NOTE

- You can not select DTS/DOLBY DIGITAL mode in Analog mode or except DVD, AUX Function.
- To select DTS/DOLBY DIGITAL mode, you should select optical or coaxial mode by DISPLAY button.
- 7 DISPLAY Button Press this button to switch the digital signal when DVD, AUX selected. Refer to OSD digital input (page 16).

When DVD selected

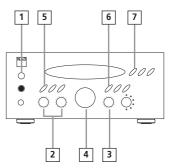
Optical	\rightarrow	Coaxial	\rightarrow	Analog	_

When AUX selected

→ Optical

CAUTION

In tuner function, this button toggles the display to show the PS/RT.





RADIO RECEPTION

AUTO TUNING

- 1 Select the Tuner by turning the Source selector.
- 2 Select the AM or FM by pressing the AM/FM selector button.
- **3** Press the Tune/Preset MODE button to change to TUNING mode. (The PRESET CH. indicator disappears from the display.) This button is used to select Tuning or Preset scan mode.
- **4** Press the UP or DOWN TUNING button (within 0.5 to 2 seconds). The next station broadcasting at a frequency higher or lower than that of the current station is automatically detected and tuned in. By pressing and holding the TUNING button for longer than 2 seconds, it will continue to scan (three times faster than normal speed).

MANUAL TUNING

Manual Tuning is generally used to tune to stations broadcasting a signal that is too weak to be received by Auto Tuning.

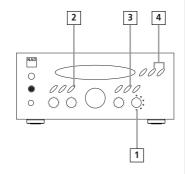
- 1 Select the Tuner by turning the Source selector.
- 2 Select the AM or FM by pressing the AM/FM selector button.
- **3** Press the Tune/Preset MODE button to change to TUNING mode. (The PRESET CH. indicator disappears from the display.)
- **4** When the Tune/Preset Mode button is pressed momentarily (0.5 second or less), the frequency changes by a fixed step.
 - FM: 50 kHz steps, AM: 9 kHz steps
- Press the AM/FM button for more than 4 seconds then steps changes.

PRESET TUNING

This facility is used to store AM and FM stations in presets from 1 to 30.

AUTOMATIC MEMORY PRESETTING

- **1** Select the Tuner by turning the Source selector.
- 2 Select the AM or FM by pressing the AM/FM selector button.
- 3 Press the MEMORY button for a while (for more than 1.5 seconds).
 - a) The start frequency will show in the display:
 - 87.5 MHz in FM, 522 kHz in AM.
 - b) The frequency and display will automatically scan.
 - c) The frequency shown in the display will rapidly change. As each station is located a preset number will appear in the display indicating which preset MEMORY button has been assigned to the station located. The scanning process will continue to operate in this fashion until 30 stations have been found and entered into the preset memory or when there are no more stations to be found on the waveband chosen. The memory indicator will extinguish and let you hear the last station to be memorized. To listen to the memorized station select the band required and press the numeric keys 1, 2, 3 etc.
- **4** The last memorized preset of each band will be displayed when Auto Memory is completed. Check the programmed frequencies with TUNING/PRESET UP, DOWN button.



RADIO RECEPTION

MANUAL MEMORY PRESETTING

- 1 Select the Tuner by turning the Source selector.
- 2 Select the AM or FM by pressing the AM/FM selector button.
- **3** Press the Tune/Preset MODE button to change to TUNING mode. (The PRESET CH. indicator disappears from the display).
- 4 Select the frequency you want to preset by pressing TUNING/PRESET UP or DOWN button.
- 5 Press the MEMORY button briefly, MEMORY display will blink at an interval of 1 second.
- **6** While the MEMORY indicator is lit
- a) Press the TUNING/PRESET button to be desired selection then press the MEMORY button again, or
 b) Press the numeric keys (on the remote control unit) to input the preset number in which the data for the broadcast is to be stored.

DELETING A STORED PRESET

You can empty a preset by deleting the stored information

- 1 Select the preset to be emptied.
- **2** Press and hold Tune/Preset mode button for more than 4 seconds. The preset will then be deleted and "___" appears on the preset number and "DELETED" scrolls on the display.

NOTE

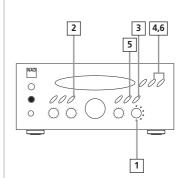
Empty presets will be skipped during preset tuning.

RECALLING FREQUENCIES

Press the numeric key(s) corresponding to the channel number to tune directly to a broadcast.

"BACK-UP" MEMORY FUNCTION

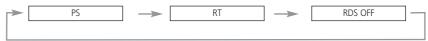
This function conserves the already preset station memories, and "Most-recent" memory function, even in the event of a cut-off of power supply, as when the plug is pulled out of the wall outlet.



RDS is a broadcasting service which allows stations to send additional information along with the regular radio program signal. RDS services can be received only in FM band.

RDS DISPLAY

- **1** Select the tuner with the Source selector.
- **2** Press the AM/FM button to select FM.
- **3** Press the DISPLAY button. Each time you press the button briefly (1.5 sec or less), the modes will change as follows regardless of the current mode.



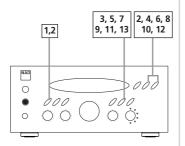
ABOUT USER NAMES

You can assign an eight character "User Name" to each radio preset, which will show in the front-panel readout whenever that preset is recalled.

ENTERING USER NAMES

For example, to name a radio preset "NEWS": recall the desired radio preset, and then press the frontpanel DISPLAY key for about four seconds; the readout shows a blinking bar. Use the DISPLAY key to select the first character of the name ("N" from the alphabetic list; press either TUNE ◀/► key to select the character. Press the DISPLAY key to move to the next position. Repeat this process for each character in sequence; press the MEMORY key once to store the User Name and exit the text-entry mode.

CLOCK / ON TIME / OFF TIME ADJUST



- 1 Press and hold the TIMER ON/OFF button for more than 4 seconds. "TIME" scrolls on the display and then replaced by the current time with the hour blinking at an intervals of 1 second.
- 2 Adjust the hour by pressing TIME DOWN/UP button. Otherwise press TIMER ON/OFF button briefly to bypass current time setting and move to On Time Adjust mode. Another press of TIMER ON/OFF button will bypass On Time setting and move to Off Time setting.
- **3** Press the MEMORY button briefly. The minutes will blink at an interval of 1 second.
- 4 Adjust the minute by pressing TIME DOWN/UP button.
- Press MEMORY button briefly to change to On Time Adjust Mode. "ON TIME" scrolls on the display and is then replaced by the previously set On Time with the hour blinking at an interval of 1 second.
- 6 Adjust the hour by pressing TIME DOWN/UP button.
- 7 Press the MEMORY button briefly. The minute will blink at an interval of 1 second.
- 8 Adjust the minute by pressing TIME DOWN/UP button.
- 9 Press MEMORY button briefly to change to Off Time Adjust Mode. "OFF TIME" scrolls on the display and is then replaced by the previously set Off Time with the hour blinking at an interval of 1 second.10 Adjust the hour by pressing TIME DOWN/UP button.
- 11 Press the MEMORY button briefly. The minute will blink at an interval of 1 second.
- 12 Adjust the minute by pressing TIME DOWN/UP button.
- 13 Press MEMORY button briefly to change to Normal Mode.

When you use the surround function, the sound creates a "live" atmosphere such as that experienced in movie theaters, discos, stadiums and concert halls. This unit is provided with the following surround modes, which can be selected using the SURROUND MODE switches.

Select the appropriate surround mode according to the program source.

• Note that surround speakers are needed for the Dolby Pro Logic Surround mode to function, and a center speaker is needed for the 3 Stereo mode to function.

DTS (DIGITAL THEATER SYSTEM)

Allows you to enjoy 5.1 (or 6) discrete channels of high quality digital audio from DTS program sources bearing the \square , \square or "HIGH DEFINITION SURROUND" trademark such as discs, DVD and compact discs, etc. DTS DigitalSurround delivers up to 6 channels of transparent audio (which means identical to the original masters) and results in exceptional clarity throughout a true 360° soundfield. The term DTS is a trademark of DTS Technology, LLC. Manufactured under license from DTS Technology, LLC.

NOTE

The DTS program sources should be played back in the DTS mode. If not, it will sound like continuous noise.

DOLBY DIGITAL SURROUND

The Dolby Digital surround format lets you enjoy up to 5.1 channels of digital surround sound from a Dolby Digital program source. If you connect a DVD player equipped with an DOLBY DIGITAL output to the DC DIGITAL (Dolby Digital) / DTS / PCM DIGITAL IN jack on a surround receiver/amplifier or surround processor and play DVD with the DC DIGITAL IN jack on a surround receiver/amplifier or surround processor and play DVD with the DC DIGITAL in jack on a surround receiver/amplifier or surround processor and play DVD with the DC DIGITAL in jack on a surround receiver/amplifier or surround processor and play DVD with the DC DIGITAL in jack on a surround receiver/amplifier or surround processor and play DVD with the DC DIGITAL in jack on a surround receiver/amplifier or surround processor and play DVD with the DC DIGITAL in jack on a surround receiver/amplifier or surround processor and play DVD with the DC DIGITAL in jack on a surround receiver/amplifier or surround processor and play DVD with the DC DIGITAL in jack on a surround receiver/amplifier or surround processor and play DVD with the DC DIGITAL in jack on a surround receiver/amplifier or surround processor and play DVD with the DC DIGITAL in jack on a surround receiver/amplifier or surround processor and play DVD with the DC DIGITAL in jack on a surround left delivers up to 5 totally discrete, full frequency audio channels (front left and right, center, and surround left and right), plus 0.1 channel called LFE (bass-only effects channel).

Dolby Digital is a system developed by Dolby Laboratories that transmits 5.1 channels of digital signals. The surround system developed for movie theaters using this system is called "Dolby SR-D (Surround Digital)". Because each channel is completely independent, a realistic sound field with a "three-dimensional" feel is achieved which gives the sound a sense of distance, movement and relative position, creating a surprisingly real and powerful sense of presence.

Some Dolby Digital programs carry information that allow you to compress the dynamic range of sound track, without degrading the sound quality, for softer sound effects when you listen late at night.

LFE: LOW FREQUENCY EXTENSION

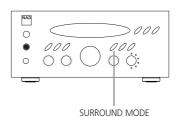
This channel delivers separate non-directional bass signals to the subwoofer for more dynamic deep bass sound effects.

DOLBY PRO LOGIC II

Use this mode when playing movie or music video software which carries the DC DPL II mark. This mode provides the effect of being in a movie theater or live concert house-an effect with an intensity which can only be obtained through DOLBY PRO LOGIC II SURROUND. The main feature of DOLBY PRO LOGIC II is that the frequency response of the surround channels is significantly improved from 7 kHz to full 20 to 20 kHz bandwidth with channel separation of 26 to 40 dB.

As a result, the effect of the front/back/ left/right movement of the sound image, as well as the sense of fixed position in the sound image, is much clearer and more dynamic than before.

In addition, movie dialogue and other sounds which should naturally be heard from the center are output through an independent center channel, providing a high degree of focus for dialogue.



15

DOLBY 3 STEREO

Front speakers receive rear (surround) speaker signals in addition to front speakers signals. Center speaker works similarly as that of Dolby Pro Logic mode. In this way, you can enjoy playback sound having superior sound positioning.

HALL SURROUND

When playing recordings of live music, this mode provides a feeling similar to actually being in a concert hall. When this mode is selected, the normal program source is directed to the main speakers and a reverberated sound is directed to the surround speakers. This mode is suited to program sources which contain a large amount of reverberation.

STEREO

When playing movie or music with 5.1 channels through Dolby Digital or DTS, selecting STEREO MODE will down-mix the multi-channel signal to 2-channel stereo. VFL Display will show 'Dolby stereo' icon or 'DTS stereo' icon.

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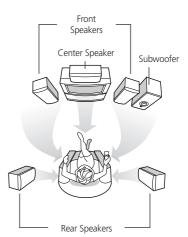
Manufactured under license from Digital Theater System, Inc. US Pat No. 5,451,942 and other worldwide patents issued and pending. "DTS", "DTS Digital Surround", are trademarks of Digital Theater System, Inc.

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SPEAKER POSITIONING

The installation positions of speakers differ according to the size, and acoustics of the listening room. While actually listening to a program source, try various speaker positions to determine which layout provides the best surround effect.

- Front speakers Place to the front left and right of the listening position. Front speakers are required for all surround modes.
- **Center speaker** Place front and center. This speaker stabilizes the sound image and helps recreate sound motion. Be sure to connect a center speaker when using the DOLBY 3 STEREO mode.
- **Rear speakers** Place to the direct left and right. These speakers recreate sound motion and atmosphere. Required for surround playback. For best results, do not install the rear speakers too far behind the listening position and install them above the level of the listener's ears. It is also effective to direct the rear speakers towards a wall or ceiling to further disperse the sound.
- Subwoofer Reproduces powerful deep bass sounds.



Speaker layout example when using SURROUND MODE

SPEAKER CONFIGURATION

• Refer to OSD speaker configuration. (page 22)

It is important to perform speaker configuration prior to using the decoder. This allows the unit to sense the available speakers and automatically select decoding modes. It is possible to receive multi-channel surround sound without a center speaker, but for best results with Dolby Pro Logic and Dolby Digital decoding, at least 5 speakers (Left, Center, Right, Left Rear and Right Rear) should be used.

CENTER SPEAKER MODE

- LARGE: Use this mode with a large center speaker. The center channel's output is full range.
- SMALL: Use this mode with a small center speaker. Bass frequencies below 90 Hz are output from the speaker selected by LFE/Bass Out.
- NONE: Use this mode if there is no center speaker. The center channel signal will be divided between the main L and R speakers.

REAR (SURROUND) SPEAKER MODE

- LARGE: The mode to choose if a large speaker is used or if a subwoofer is connected in parallel. The rear channels full range is output as is.
- SMALL: The mode to choose if small speakers are used. Frequencies of 90Hz and below are output to the speaker selected by LFE/Bass Out.
- NONE: Use this mode if there are no rear speakers.

FRONT SPEAKER MODE

- LARGE: The mode to choose if a large speaker are installed. Front channels full range is output as is.
- SMALL: The mode to choose compact speakers. Frequencies of 90Hz and below are output to the speaker selected by LFE/Bass Out.

SUBWOOFER OUTPUT

- SUB-ON: The mode to choose if a subwoofer is used. Low frequencies of 90Hz and below in the LFE channel and other selected channels are output to the subwoofer.
- SUB-OFF: The mode to choose if no subwoofer is used. Low frequencies of 90Hz and below in the LFE channel and other selected channels are distributed between the front L and R speakers.

DELAY TIME

• Refer to OSD surround mode. (page 22)

When you adjust the delay time in the DOLBY DIGITAL mode, an additional 15 ms is automatically added to the surround channels in the DOLBY PRO LOGIC mode. The current setting is shown on the display.

DELAY TIME SETTING

Adjustable Range DOLBY DIGITAL Mode:

0 ~ 15 ms in 1 ms step (S-Delay)

0 ~ 5 ms in 1 ms step (C-Delay)

DOLBY PRO LOGIC II MOVIE & EMULATION Mode:

10 ~ 25 ms in 1 ms step (S-Delay)

DOLBY PRO LOGIC II MUSIC Mode:

0 ~ 15 ms in 1 ms step (S-Delay)

In the surround modes, the sound from the rear speakers should be delayed slightly, relative to that from the front speakers. The optimum delay time will depend on acoustic properties, whether the walls and furnishings reflect or absorb sound, etc.

It is recommended that you try different delay times to obtain the best effect. The delay is digitally synthesized, for the highest sound quality with minimum noise and distortion. The delay time can be set independently for each surround mode using the DELAY TIME buttons, with the current setting shown in the display.

OSD (ON SCREEN DISPLAY

Important: The on-screen display will not operate unless the receiver is connected to the television with a video or s-video cable from the monitor out jacks.

When your NAD Surround sound Receiver is connected to a television, you can operate the unit with the remote control by making selections from on-screen menus. If a menu remains on the screen for a period of time without a selection being made, the display will disappear. Most menus disappear after 12 seconds.

Before using the on-screen display, the ON SCREEN SELECTOR SWITCH on the rear panel of the receiver must be set to the type of video connection being used to supply video signal from your receiver to your TV monitor.

- **VIDEO** : Set the switch to this position when using the yellow VIDEO MONITOR OUT jack.
- S-VIDEO : Set the switch to this position when using the 4 pin S-VIDEO MONITOR OUT jack.

The on-screen display will only appear when the video signal matches the type of signal selected with the selector switch.

AUTOMATIC OSD FUNCTIONS

If the receiver is connected to a television with a video cable from the monitor out jacks, the following functions when used , will appear on-screen automatically.

SLEEP

Pressing the SLEEP button on the remote control brings up a display that allows you to select the amount of time from 90 to 0 minutes after which the system will shut itself off. Once the display appears, each time you press the SLEEP button reduces the time in ten minute increments. At zero, pressing the SLEEP button again starts the sequence over at 90 minutes. Without input, the display will disappear in 7 seconds.

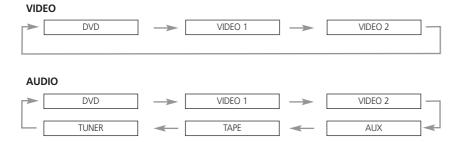
VOLUME

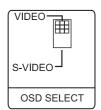
Pressing the MASTER VOLUME button on the remote control brings up a display that shows the receiver volume selected.

INPUT STATUS

When you turn your receiver's power on or change its functions, a display appears on your television screen showing the current status of the system, including the type of video and audio input being monitored, the type of audio output.

With this display on-screen, the type of input being monitored can be changed by pressing the appropriate key in the top section of the remote control. This menu will remain on the screen for only 7 seconds without input.







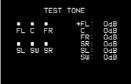




OSD (ON SCREEN DISPLAY)



VIDEO INPUT:DUD AUDIO INPUT:DUD DIGITAL INPUT SURROUND : DOLBY TO MAIN MENU ASTER VOLUME



SYSTEM STATUS

When operating the system in DOLBY DIGITAL, DOLBY PRO LOGIC II, OR DOLBY 3 STEREO you can display the current status of your delay times and volume settings by pressing any buttons on the remote controller related to SURROUND, including SURROUND ON/OFF. This display will remain on screen for 12 seconds.

TEST TONE

In DOLBY DIGITAL, DOLBY PRO LOGIC II, or DOLBY 3 STEREO MODES, press TEST button. Test Tone scrolls automatically every 2 sec from left, center, right, rear right, rear left and then to subwoofer in a continuous cycle.

Press the Surround button on the remote control, press the Test button, within five seconds select the channel you wish to adjust by pressing the volume up/down key. The volume level for the selected channel can be set by using the preset up/down keys.

If arrow up/down is pressed, test tone will stop moving to the next channel and will increase or decrease the level of the current channel, and the level in dB on the OSD will also change for that channel. When no button is pressed for 5 sec, test tone will continue to move to other channels. To exit and save the settings press test press test button to cancel test mode and memorize all change.

OSD "ON" POSITION

- 1 When the SETUP button on the remote control is pressed, a display appears which shows the current status of the input being monitored. To change these settings, press the ENTER button to bring up the MAIN MENU. This is the only operation that can be performed on this menu, which will disappear after 12 seconds without input.
- 2 When MAIN MENU appears, move the arrow cursor using the up/down buttons located above and below the ENTER button to select the function you wish to change, then press ENTER. This menu will remain on the screen for 20 seconds without input. If it disappears before you have made a selection, press any navigation button then the ENTER button to bring it back.
- 3 Entering INPUT SELECTOR from the MAIN MENU brings up a display that allows you to select the video input that you would like to monitor. Move the arrow using the up/down buttons, then change the input source with the left/right buttons located on either side of the ENTER button. To get back to the MAIN MENU move the arrow to GO TO MAIN MENU and press ENTER.

UIDEO INPUT: CABLE/SAT AUDIO INPUT: CABLE/SAT DIGITA

MAIN MENU -SELECTOR IN CONFIGURATION

MAIN MENU OFF

INPUT SELECTOR VIDEO:DVD →AUDIO:DVD

GO TO MAIN MENU

4 Entering DIGITAL INPUT(see page 9) from the MAIN MENU brings up a menu that allows you to select the audio input you would like to monitor.

An asterisk (*) appears opposite the input currently selected. To change this selection, move the arrow with the up/down keys to the input you want and press ENTER. The asterisk (*) will now appear opposite the input you have selected. For VIDEO 1, VIDEO 2, TAPE, TUNER inputs, ANALOG is the only selection available.

For AUX, DVD inputs, ANALOG or DIGITAL may be selected. However you must have DIGITAL audio connections and a DIGITAL or DTS source to playback in DIGITAL. (i.e. DVD, SATELLITE, CD, MD) Otherwise no sound will be heard.

To get back to the MAIN MENU move the arrow with the up/down keys to GO TO MAIN MENU and press ENTER.

5 Entering SURROUND MODE (see page 15-16) from the MAIN MENU brings up a menu that allows you to select the acoustical effects you'd like to use.

The choices available to you will vary according to the function and type of input you are monitoring.

When you are monitoring VIDEO 1, VIDEO 2, TAPE or TUNER use the left/right buttons to select one of these SURROUND MODE choices (see page 15-16):

PRO LOGIC II MOVIE PRO LOGIC II MUSIC PRO LOGIC II EMULATION DOLBY 3 STEREO HALL ANALOG STEREO

When you are monitoring AUX or DVD use the left/right buttons to select one of these SURROUND MODE choices (see page 15-16):

DTS (DIGITAL THEATRE) DOLBY DIGITAL PRO LOGIC II MOVIE PRO LOGIC II MUSIC PRO LOGIC II EMULATION DOLBY 3 STEREO HALL ANALOG STEREO (SURROUND OFF)

NOTE

You must have digital audio connections and a Dolby Digital or DTS source to playback in Dolby Digital or DTS.

When you are monitoring ANALOG input, use the left/right buttons to select one of these SURROUND MODE choices (see page 15-16):

PRO LOGIC II MOVIE PRO LOGIC II MUSIC PRO LOGIC II EMULATION DOLBY 3 STEREO HALL ANALOG STEREO

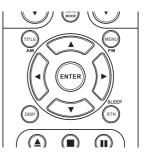
HSIJDNE

- MAIN MENU -INPUT SELECTOR DIGITAL INPUT SURROUND HODE LEVEL TRIM SPEAKER CONFIGURATION LANGUAGE MAIN MENU OFF

DIGITAL INPUT AUDIO INPUT:DUD ANALOG *+OPTICAL COAXIAL

- MAIN MENU -INPUT SELECTOR DIGITAL INPUT +SURROUND MODE LEVEL TRIM SPEAKER CONFIGURATION LANGUAGE MAIN MENU OFF

SURROUND MODE +SURROUND:DTS DELAY TIME CENTER: 0 mS SURR: 0 mS GO TO MAIN MENU



In the DOLBY PRO LOGIC mode, the REAR speakers can be set for 15 to 30 ms of delay. NIGHT MODE, which is only available in Dolby Digital surround mode. Because of the possible wide dynamic range of Dolby Digital material it may sometimes be desirable to reduce the extreme between soft and loud passages when playing at low volume setting to retain intelligibility.

To get back to the MAIN MENU move the arrow to GO TO MAIN MENU and press ENTER.

6 Entering SPEAKER CONFIGURATION (see page 17) from the MAIN MENU brings up a menu that allows you to select the speaker configuration in use.

Your choices will vary according to the SURROUND MODE (see page 15-16) you are using. Use the up/down buttons to move the arrow and the right/left buttons to make your selections.

NOTE

Regardless of the available front speakers, select large for front when there is no subwoofer connected to redirect bass frequencies to the front speakers.

- In the case of DTS or DOLBY DIGITAL, your choices are: FRONT: SMALL or LARGE CENTER: NONE or SMALL or LARGE REAR: NONE or SMALL or LARGE SUB: ON or OFF
- In the case of DOLBY PRO LOGIC II, your choices are: FRONT: SMALL or LARGE CENTER: NONE or SMALL or LARGE REAR: NONE or SMALL or LARGE SUB: ON or OFF
- In the case of DOLBY 3 STEREO, your choices are: FRONT: SMALL or LARGE CENTER: NONE or SMALL or LARGE REAR: NONE or SMALL or LARGE SUB: ON or OFF
- 7 Entering LANGUAGE from the MAIN MENU brings up a menu that allows you to change the language of the on screen menus.

An asterisk (*) appears opposite the language currently selected. To change this selection, move the arrow with the up/down keys to the language you want and press ENTER. The asterisk (*) will now appear opposite the language you have selected.

- MAIN MENU -INPUT SELECTOR

SURROUND MODE LEVEL TRIM →SPEAKER CONFIGURATION LANGUAGE



GO TO MAIN MENU





REMOTE CONTROL UNIT

USING THE REMOTE HTR L76 CONTROL UNIT

NOTES

- Always select the DEVICE SELECTOR first to select the device to be operated. There are eight DEVICE buttons on the HTR L76.
- Even if the remote control unit is operated within the effective range, remote control operation may be impossible if there are any obstacles between the unit and the remote control.
- If the remote control unit is operated near other appliances which generate infrared rays, or if other remote control devices using infrared rays are used near the unit, it may operate incorrectly. Conversely, the other appliances may also operate incorrectly.

BATTERY INSTALLATION

- 1 Remove the battery compartment cover.
- 2 Insert two "AAA" (R03, UM-4) dry batteries. Make sure that the batteries are inserted with their positive and negative poles positioned correctly.
- **3** Close the cover until it clicks.

BATTERY REPLACEMENT

If the distance required between the remote control unit and main unit decreases, the batteries are exhausted. In this case replace the batteries with new ones.

PRECAUTIONS CONCERNING BATTERIES

- Be sure to insert the batteries with correct positive "+" and negative "-" polarities.
- Use batteries of the same type. Never use different types of batteries together.
- Rechargeable and non-rechargeable batteries can be used. Refer to the precautions on their labels.
- When the remote control unit is not to be used for a long time (more than a month), remove the batteries from the remote control unit to prevent them from leaking. If they leak, wipe away the liquid inside the battery compartment and replace the batteries with new ones.
- Do not heat or disassemble batteries and never dispose of old batteries by throwing them in a fire.

SPECIFICATIONS

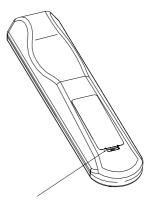
- Controls up to 8 devices
- 44 function keys
- Learns up to 352 commands
- Records up to 44 macros with a maximum of 64 commands each
- Configurable punch-through
- Key illumination with programmable timeout
- Upgradeable
- Contains pre-programmed library of NAD remote codes for the L76

The NAD HTR L76 is ready to operate the L76 receiver right out of the box, but it is really eight remotes in one. Each of the 8 Device Selector keys at the top of the handset can call up a new "page" of remote control codes to be transmitted by the remaining 44 keys. You may "teach" codes from any infrared remote- controlled component, regardless of brand, to any or all of these. Obviously, the most logical system is that you teach the codes from your DVD player to the "DVD" Device Selector "page," your television's codes to the "TV" "page," and so on, but there is no required scheme: You may load any commands to any key on any page (see "Learning Codes From Other Remotes,").

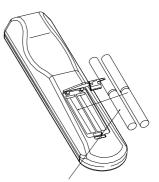
The HTR L76 is already preprogrammed with a full complement of commands for the L76 receiver on its "AMP", "TUNER" and "DVD" Device Selector page, and as well as with library commands to operate most NAD-brand DVD, CD, or TAPE components on the corresponding Device Selector "pages." These default commands are permanent: Even if you teach the HTR L76 new commands to take their place, the underlying library commands remain in place and can easily be recalled should you add an NAD component to your system later (see "Delete Mode,").

NOTE

For use with the L76, it should not be necessary to re-program any keys on the HTR L76 "AMP" and L56 "DVD" page. However, in order for the HTR L76 to control your specific NAD-brand components you may need to load one or more different code-libraries; see "Loading Code Libraries,".



PRESS IN AND LIFT TAB TO REMOVE BATTERY COVER OUT OF RECESS



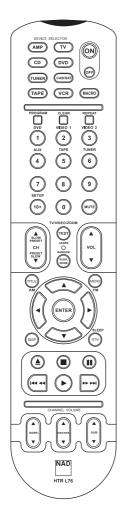
PLACE BATTERIES INTO OPENING. ENSURE THE CORRECT FITTING IS OBSERVED



REPLACE BATTERY COVER BY ALIGNING AND INSERTING THE TWO TABS INTO THE HOLES.

PRESS BATTERY COVER INTO PLACE UNTIL IT 'CLICKS' CLOSED

REMOTE CONTROL UNIT



CONTROLLING THE L76

The HTR L76 is divided into two main sections. Eight Device Selector keys at the top-"AMP", "DVD," "TV," and so on-set the handset's remaining keys to a "page" of commands to control a particular component. A Device Select key determines only what component the HTR L76 will command; it does not perform any function on the receiver. All of the remaining keys are function keys that can "learn" control codes from virtually any infrared remote controller, allowing you to teach the codes of your equipment, regardless of brand, to the HTR L76.

However, the HTR L76 is already preprogrammed to operate the L76. All of the function keys on the "AMP," "TUNER," and "DVD" Device Selector "page" perform L76 functions. (The HTR L76 can also command many other NAD components, from its "CD" and "TAPE" pages.)

It is important to note that certain HTR L76 keys perform different functions depending on the selected Device Selector "page." The colour of the Device Selector key-labelling corresponds to the labelling of the function keys. Most centrally, the orange "AMP" Device Selector "page" corresponds to the orange input-select labelling adjacent to the numeric keys: When the HTR L76's "AMP" Device Selector page is active; these keys select the receiver inputs. Similarly, the red "DVD" Device Selector "page" corresponds to several red labels, the green "TV" page to green labels, and so on.

LEARNING CODES FROM OTHER REMOTES

Begin by positioning the HTR L76 "nose-to-nose" with the source remote so the two devices' infrared windows are about 2 inches apart.

- Enter Learning Mode: On the HTR L76, simultaneously press-and-hold for 3 seconds both a Device Selector key and the TOPEN/CLOSE" key (just below the "DISP" key), until the Learn LED at the centre of the HTR L76 turns steady green.
- Press the HTR L76's function key you wish to teach a command; the Learn LED will turn amber.
- Press-and-hold the function key on the source remote: The HTR L76's Learn LED will flicker amber for a second or two, then turn solid green. The command is learned.
- Press the HTR L76's Device Selector key again to exit the learning mode. If the Learn LED does not flicker amber you may need to vary the distance between the remotes. If the Learn LED turns red rather than green, that particular command of that source remote command could not be learned.

CANCEL OPERATION

You can cancel configuring a key, by pressing the active Device Selector key before the learn process is complete; the Learn LED will turn red.

Example: Learning "VCR Pause"

Position the HTR L76 and your VCR player's remote as described above.

- On the HTR L76, simultaneously press-and-hold "VCR" and ▲ ; the Learn LED turns steady green.
- Press the HTR L76's 📕 (pause) key; the Learn LED turns amber.
- Press-and-hold the VCR player's remote's pause key; the HTR L76's Learn LED flickers amber and then turns solid green. The command is learned.
- Press "VCR" again to exit the learning mode.

REMOTE CONTROL UNI

PUNCH-THROUGH

The HTR L76's "punch-through" function allows you to retain a function key from one Device Select "page" on another, so that, for example, the AMP "SURR MODE" function might still control the L76 when the DVD Device Selector page is active

NOTE

The HTR L76's "VOL" and "MUTE" keys are preprogrammed as "punched-through" for all Device Select pages: "VOL" will operate the L76's master-volume regardless of the currently selected device. The "SURR." "CENTER," and "SUB" Channel Volume controls similarly are pre-programmed as punched-through. To set a punch through, after entering the Learning Mode, and pressing the desired key to be punched-through, simply press the device key twice of the device to punch through to. The status LED will turn green; press the Device Selector key again to exit Learning Mode.

Example: Punch-through the from the DVD "page" to the AMP "SURR MODE" key:

- On the HTR L76, simultaneously press-and-hold "DVD" and ▲ (OPEN/CLOSE); the Learn LED turns steady green.
- Press "SURR MODE"; the Learn LED turns amber.
- Press "AMP" twice; the Learn LED turns green.
- Press "DVD" again to exit the learning mode.

COPY A COMMAND FROM ANOTHER KEY

You may copy a command from any HTR L76 key to any other. To copy a key function, after entering the Learning Mode, and pressing the desired key to be copied to, simply press the device key from which you wish to copy, having first pressed its Device Selector key if it resides on another "page." The status LED will turn green; press the Device Selector key again to exit Learning Mode.

Example: Copy the Pause command from the DVD page to the AMP **II** key:

- On the HTR L76, simultaneously press-and-hold "AMP" and (OPEN/CLOSE); the Learn LED turns steady green.
- Press II (pause); the Learn LED turns amber.
- Press "CD"; press II (pause); the Learn LED turns green.
- Press "AMP" again to exit the learning mode.

NOTE

The copy and punch-through functions are similar. However, if you copy a command and then subsequently delete, or over-write the original (source-key) command, the copied-to key's command remains unchanged. If you punch-through to a command and then delete or over-write the original key, the punched-through functions also change accordingly.

MACRO COMMANDS

A "macro" command is a series of two or more remote codes issued automatically from a single key press. You might use a macro to automate a simple command sequence, such as, "Turn on the DVD player and then press 'play." Alternatively, you might compose an elaborate macro to power up an entire system, select a source, choose a SURROUND MODE, and begin playback-again, all from a single key press. The HTR L76 can store one macro on each of its function keys (these exclude the Device Selector keys).

NOTE

Macros are independent of the currently selected device.

RECORDING MACROS

To record a macro, simultaneously press-and-hold for 3 seconds both the "MACRO" key and the HTR L76 function key to which you wish to assign the macro, until the status LED turns green. The macro button will also light up. Press the sequence of function keys to be recorded into the macro, being sure to first press the requisite Device Selector key for each function (you may switch devices while recording the macro as many times as necessary), allowing you to create macro containing commands from more than one Device Selector "page." When you have finished entering the desired command sequence, press "MACRO" again to store the macro; the Learn LED and "MACRO" key illumination will turn off.

NOTE

Each macro can store a maximum of 64 command steps. If you exceed this number, the macro will be stored automatically after the 64th command is added.

Example: Record a Macro to the "0" key to Turn on the L76, Select the DVD Input, and Commence Playback:

- On the HTR L76, simultaneously press-and-hold "MACRO" and "0" (numeric zero); the Learn LED turns steady green.
- Press "AMP"; press "ON"; press "1" (orange "DVD"); press "DVD"; press "play" (the Learn LED blinks as each step is added).
- Press "MACRO" again to exit the macro-record mode.

To clear a macro, perform the above steps without entering any functions.

EXECUTING MACROS

To execute a macro, press and release "MACRO"; its key illumination lights for 5 seconds. While it remains lit, press an HTR L76 key to which a macro has previously been stored. The corresponding macro will run; as each step executes, its "parent" Device Selector's key flashes lights briefly; when execution is finished, the "MACRO" key illumination goes out. Pressing any other HTR L76 key while a macro is executing will abort the macro. Remember that you must hold the HTR L76 so that its infrared emitter can activate the target components.

NOTE

When a macro executes, a 1 second delay is automatically inserted between its commands. If you need more than a 1-second delay between particular commands-for example, to permit a component to power up completely-you can record "empty" steps into the macro by changing Device Selector "pages" without entering actual command functions.

KEY-ILLUMINATION TIMEOUT

The HTR L76's key-illumination can be set to remain lit for 0-9 seconds. The default value is 5 seconds. To set the illumination timeout, simultaneously press-and-hold for 3 seconds both the HTR L76's "DISP" and the "0-9" key, with the digit corresponding to the desired timeout duration; the Learn LED will flash twice to confirm the new setting. When set to zero, the illumination will not turn on at all.

NOTE

Key illumination is the biggest drain on the HTR L76's batteries. A short key-illumination timeout will extend battery life appreciably; turning it off altogether (set it to 0 seconds) will lengthen it still further.

FACTORY RESET

The HTR L76 can be reset to its factory state, deleting all learned commands, copied and punched through keys, macros, and other set-up information, reverting all keys to their pre-programmed library commands. To perform a factory reset simultaneously press-and-hold for 10 seconds the HTR L76's "ON" and "RTN" keys; the Learn LED will start to flash green. Release "ON" and "RTN" before the second flash is complete; the Learn LED will turn red, indicate the remote has been reset.

NOTE

You must release "ON" and "RTN" before the second flash goes out, otherwise the unit will not reset; should this occur, repeat the full procedure.

DELETE MODE

The HTR L76 can store learned, copied, and "default library" commands on any single key. (The default library commands are the pre-programmed NAD codes, such as the native L76 commands on the "AMP" "page.") You can delete commands by layers back "down" to the default library command on any key, removing learned commands, punched-through functions, and copied keys.

NOTE

The default library commands cannot be deleted, so you need not worry that using Delete Mode might cause irreparable changes.

To enter Delete Mode, simultaneously press-and-hold for 3 seconds both the desired key's Device Selector key and the "RTN" key, until the Learn LED turns green. Press the function key whose command you wish to delete; the Learn LED flashes; the number of times indicates which type of function has become active see the table below. Press the active Device Selector key again to exit Delete Mode.

NOTE

You may delete multiple function-key commands on the same Device Selector "page," but to delete from more than one Device Selector page you must exit Delete Mode and then re-enter it on the required page.

Flashes	Command Type
1	Default Library Command
2	Copied Library Command
3	Learned Command

LOADING CODE-LIBRARIES

The HTR L76 can store a different library of default NAD codes for each of its Device Selector "pages." If the original default library does not control your NAD CD player, tape deck, DVD player, or other component, follow the procedure below to change the code-library. Begin by ensuring that the component you wish the HTR L76 to control is plugged in and powered-up ("on," not merely in standby). To enter the HTR L76's Library Mode, simultaneously press-and-hold for 3 seconds both the desired Device Selector key and the "PROGRAM" key, until the Learn LED turns green. While keeping the HTR L76 pointed toward the component turns off, press "ENTER" to accept that code-library number from the table below. If the component does not turn off, enter the next three-digit code-library number from the table. When you enter the correct number the component will turn off; press "ENTER" to accept that code-library number from the table.

NAD-brand component	HTR L76 code-library numbers
CD Player (new)	200
CD Player (old)	201
DVD T562	600
DVD T550, L55	601
DVD T531, T571	602
DVD T512, T532, T572	602

SEARCH MODE

If none of the codes from the table turn off the component, and if you are quite sure you have followed the above procedure completely and carefully, you may want to try the "search" method as follows:

Enter Library Mode by simultaneously pressing-and-holding for 3 seconds both the desired Device Selector key and the "PROGRAM" key, until the Learn LED turns green. Now press-and-hold the HTR L76's \checkmark or \checkmark key; the remote will step through all the available codes at a rate of approximately 1 per second. When the component turns off, immediately release the cursor key; press "ENTER" to accept that code-library and exit the Library Mode. Try a few commands; should you prove to have stepped past the needed code-library, re-enter the Library Mode and use the cursor key to step back to it.

NOTE

It is possible that search mode will find code-libraries that operate, at least partially, some other-brand (non-NAD) components. You may certainly exploit such capabilities as you find them. However, since we can only ensure the completeness or accuracy of NAD code-libraries, we cannot support the HTR L76's operation with other-brand components.

CHECKING CODE-LIBRARY NUMBER

You can check the current code-library on any Device Selector key as follows. Enter Library Mode by simultaneously pressing-and-holding for 3 seconds both the desired component's Device Selector key and the "PROGRAM" key, until the Learn LED turns green. Press the "DISP" key; the HTR L76 indicates the current code-library by flashing its "TAPE," "VCR," and "MACRO" keys.

For example, to indicate code-library #501 the HTR L76 will flash "TAPE" 5 times, pause, and then flash "MACRO" once. You might wish to make a note of your components' code-library numbers.

SUMMARY OF HTR L76 MODES

Mode

Learn/Copy/Punch Through Delete Mode Macro Record Library Mode Back Light Timeout Factory Reset

Keys To Press (for 3 seconds)

Device Key + OPEN/CLOSE Key Device Key + Return Key Macro Key + Function Key Device Key + Program Key Display Key + Digit Key (see "Factory Reset," above)

TROUBLESHOOTING

To determine any problem with your receiver, always check the most obvious possible causes first. If any problem still remains after your have checked the items below, consult your nearest NAD dealer.

Problem	Probable Cause	Remedy
Amplifier		
When listening to the music in stereo, left/right speakers sounds reversed.	Speakers are connected wrong.	After checking, if needed, reconnect.
Low hum or buzzer sound.	Power line of a fluorescent light is installed near this product.	Place this product as far away as possible from electric devices with interference.
Sound is only heard from one channel.	One of the input cords is disconnected.	The BALANCE control is set to one side.
	Connect the input cords securely.	Adjust the BALANCE control.
Sound cuts off during listening to the music or no sound even though power is ON.	Speaker impedance is less than prescribed for this unit.	After turning off the power and then turning it on again, reduce the volume or change to the correct ohm speakers.
Low bass response.	Speaker polarity (+/-) is reversed.	Check all speakers for correct polarity.
Tuner		
An unusual hissing noise is heard when listening to the broadcast in stereo, but not heard when listening monaurally.	A slight noise may be heard because the method used for modulation of FM stereo broadcasts is different than that used for monaural broadcasts.	Try reducing the treble sound by turning the treble controls.
Noise is excessive in both stereo and monaural broadcasts.	Poor location and / or direction of the antenna.	Try changing the location, height and/or direction of the antenna.
	Transmitting station is too far away.	Set the FM mode to monaural by pressing the FM MUTE/MONO button. (Note that the broadcast will then be heard as monaural sound).
Sound is distorted and/or the volume level becomes low.	Broadcast signals are being disturbed.	If an indoor antenna is being used, change to an outdoor antenna.
Excessive distortion in the sound of stereo broadcasts.	Speaker system connections are not correct.	Try using an antenna with more elements.
	peakers only operate when the unit is set on a Surround So ro Logic surround sound. Stereo broadcasts or recordings v uce any sound from the rear speakers.	
No sound from the rear speakers.	SURROUND MODE button is set to STEREO.	Set the button to the desired surround mode position.
	Source being played is not recorded or broadcast in surround sound or stereo.	Use surround or stereo source.
	One or more rear speaker wires is not making good contact.	Check all rear speaker wires for good connection.
No sound from the center speaker.	1 55	Check all rear speaker wires for good connection. Set the button to DTS, DOLBY DIGITAL, DOLBY PRC LOGIC II or DOLBY 3 STEREO.
	contact. SURROUND mode button is not set to DTS, DOLBY	Set the button to DTS, DOLBY DIGITAL, DOLBY PRC
No sound from the center speaker. Remote Control Unit Remote control not working.	contact. SURROUND mode button is not set to DTS, DOLBY	Set the button to DTS, DOLBY DIGITAL, DOLBY PRC

50 watts RMS per channel minimum** 40 + 40 Watt (Front) 40 Watt (Center) 40 + 40 Watt (Rear) 5.02 % (at 60 watts, 1 kHz) REAR 0 - 15 ms CENTER 0 - 5 ms REAR 10 - 25 ms REAR 10 - 25 ms 200 mV/47 k ohms 185 mV/2.2 k ohms 20 Hz - 65 kHz, +1/ -3 dB 70 dB (IHF-A) 3ASS ±10 dB at 100 Hz
40 + 40 Watt (Front) 40 Watt (Center) 40 + 40 Watt (Rear) 0.02 % (at 60 watts, 1 kHz) REAR 0 - 15 ms CENTER 0 - 5 ms REAR 10 - 25 ms REAR 0 - 15 ms 200 mV/47 k ohms 185 mV/2.2 k ohms 20 Hz - 65 kHz, +1/ -3 dB 70 dB (IHF-A)
40 Watt (Center) 40 + 40 Watt (Rear) 0.02 % (at 60 watts, 1 kHz) REAR 0 - 15 ms CENTER 0 - 5 ms REAR 10 - 25 ms REAR 0 - 15 ms 200 mV/47 k ohms 185 mV/2.2 k ohms 20 Hz - 65 kHz, +1/ -3 dB 70 dB (IHF-A)
40 + 40 Watt (Rear) 0.02 % (at 60 watts, 1 kHz) REAR 0 - 15 ms CENTER 0 - 5 ms REAR 10 - 25 ms REAR 0 - 15 ms 200 mV/47 k ohms 185 mV/2.2 k ohms 20 Hz - 65 kHz, +1/ -3 dB 70 dB (IHF-A)
2.02 % (at 60 watts, 1 kHz) REAR 0 - 15 ms CENTER 0 - 5 ms REAR 10 - 25 ms REAR 0 - 15 ms 200 mV/47 k ohms 185 mV/2.2 k ohms 20 Hz - 65 kHz, +1/ -3 dB 70 dB (IHF-A)
REAR 0 - 15 ms CENTER 0 - 5 ms REAR 10 - 25 ms REAR 0 - 15 ms 200 mV/47 k ohms 185 mV/2.2 k ohms 20 Hz - 65 kHz, +1/ -3 dB 70 dB (IHF-A)
CENTER 0 - 5 ms REAR 10 - 25 ms REAR 0 - 15 ms 200 mV/47 k ohms 185 mV/2.2 k ohms 20 Hz - 65 kHz, +1/ -3 dB 70 dB (IHF-A)
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185 mV/2.2 k ohms 20 Hz - 65 kHz, +1/ -3 dB 70 dB (IHF-A)
20 Hz - 65 kHz, +1/ -3 dB 70 dB (IHF-A)
70 dB (IHF-A)
3ASS ±10 dB at 100 Hz
TREBLE ±10 dB at 10 kHz
32 kHz, 44.1 kHz, 48 kHz
COAXIAL 0.5 Vp-p/75 ohms
OPTICAL -15 dBm ~ -21 dBm
1.0 Vp-p/75 ohms
1.0 Vp-p/75 ohms
87.5 MHz - 108.0 MHz 50 kHz steps
45 dB
Viono : 0.4%
Stereo : 0.5%
30 Hz - 15 kHz, +1/ -1. 5 dB
40 dB
Mono : 75 dB
Stereo : 70 dB
522 kHz - 1,620 kHz (9 kHz steps)
55 dB/m
0.8% at 85 dB/m
45 dB at 85 dB/m
230V AC, 50Hz
1.2A
285 x 133 x 348
3.8kg

Illustrations may differ from production models.



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