



C 717

DVD Receiver




Owner's Manual

IMPORTANT SAFETY INSTRUCTIONS

SAVE THESE INSTRUCTIONS FOR LATER USE.

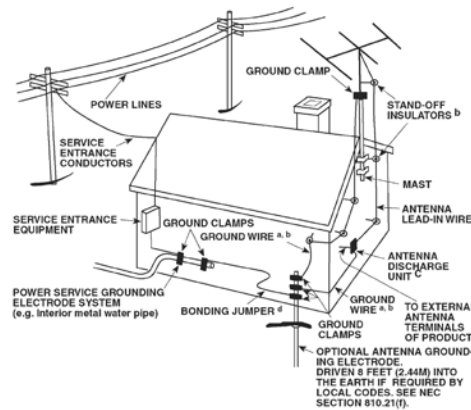
FOLLOW ALL WARNINGS AND INSTRUCTIONS MARKED ON THE AUDIO EQUIPMENT.

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

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

NOTE TO CATV SYSTEM INSTALLER

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



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

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

19 Damage Requiring Service - Unplug this product from the wall outlet and refer servicing to qualified service personnel under the following conditions:

- a) When the power-supply cord or plug is damaged.
- b) If liquid has been spilled, or objects have fallen into the product.
- c) If the product has been exposed to rain or water.
- d) If the product does not operate normally by following the operating instructions. Adjust only those controls that are covered by the operating instructions as an improper adjustment of other controls may result in damage and will often require extensive work by a qualified technician to restore the product to its normal operation.
- e) If the product has been dropped or damaged in any way.
- f) when the product exhibits a distinct change in performance-this indicates a need for service.

20 Replacement Parts - When replacement parts are required, be sure the service technician has used replacement parts specified by the manufacturer or have the same characteristics as the original part. Unauthorized substitutions may result in fire, electric shock, or other hazards.

21 Safety Check - Upon completion of any service or repairs to this product, ask the service technician to perform safety checks to determine that the product is in proper operating condition.

22 Wall or Ceiling Mounting - The product should be mounted to a wall or ceiling only as recommended by the manufacturer.

23 Heat - The product should be situated away from heat sources such as radiators, heat registers, stoves or other products (including amplifiers) that produce heat.

WARNING

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

CAUTION

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

CAUTION

This DVD Receiver employs a Laser System. To ensure proper use of this product, please read this owner's manual carefully and retain for future reference. Should the unit require maintenance, contact an authorized service location. Use of controls, adjustments or the performance of procedures other than those specified may result in exposure to laser radiation. To prevent direct exposure to laser beam, do not try to open the enclosure. Visible laser radiation when the enclosure is opened.

DO NOT STARE INTO BEAM.

FCC NOTICE

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

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

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

FCC WARNING

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

INDUSTRY CANADA REQUIREMENT

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



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



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



The equipment draws its nominal non-operational power from the AC outlet with its POWER switch in the STANDBY position. The socket-outlet shall be installed near the apparatus and shall be easily accessible.

CAUTION

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

CAUTION REGARDING PLACEMENT

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

- Left and Right Panels: 10 cm
- Rear Panel: 10 cm
- Top Panel: 50 cm

IMPORTANT SAFETY INSTRUCTIONS

IMPORTANT INFORMATION FOR UK CUSTOMERS

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

IMPORTANT

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

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

- BLUE – NEUTRAL
- BROWN – LIVE

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

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

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

IF IN DOUBT CONSULT A COMPETENT ELECTRICIAN.

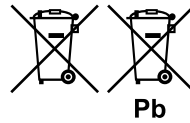
NOTES ON ENVIRONMENTAL PROTECTION



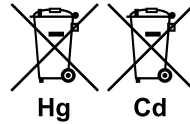
At the end of its useful life, this product must not be disposed of with regular household waste but must be returned to a collection point for the recycling of electrical and electronic equipment. The symbol on the product, user's manual and packaging, point this out.

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

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



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



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

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

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

NOTE: THE C 717 IS NOT AN AUTO VOLTAGE DVD RECEIVER. CONNECT ONLY TO THE PRESCRIBED AC OUTLET, I.E., 120V 60HZ OR 230V 50HZ.

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

The model and serial number of your new C 717 are located on the back of the cabinet. For your future convenience, we suggest that you record these numbers here:

Model no:
Serial no:

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THANK YOU FOR CHOOSING NAD

The C 717 DVD Receiver is a technologically advanced and highly capable product - yet we have invested great effort in making it simple and easy to use. The C 717 delivers a range of genuinely useful options for stereo listening using powerful digital signal processing and superbly accurate digital-audio circuitry. However, we have also been careful to ensure that the C 717 is as musically transparent and spatially accurate as possible, incorporating much of what we've learned from a quarter-century's experience designing audio, video and home-theatre components. As with all our products, NAD's "Music First" design philosophy guided the C 717's design, such that it can confidently promise you both state-of-the-art surround home-theatre and audiophile-quality music listening for years to come.

We encourage you to take a few minutes now to read right through this manual. Investing a little time here at the outset might save you a good deal of time later, and is by far the best way to ensure that you make the most of your investment in the C 717, and get the most from this powerful and flexible home-theatre component.

One more thing: We urge you to register your C 717 ownership on the NAD Worldwide Web site:

<http://NADelectronics.com/warranty>

For warranty information contact your local distributor.

INTRODUCTION

GETTING STARTED

UNPACKING AND SETUP

WHAT'S IN THE BOX

Packed with your C 717 you will find:

- An AM loop antenna
- An FM lead-type antenna
- The SR 9 remote control with 2 (two) AAA batteries
- This owner's manual

SAVE THE PACKAGING

Please save the box and all of the packaging in which your C 717 arrived. Should you move or otherwise need to transport your C 717, this is by far the safest container in which to do so. We've seen too many otherwise perfect components damaged in transit for lack of a proper shipping carton, so please: Save that box!

CHOOSING A LOCATION

Choose a location that is well ventilated (with at least several inches to both sides and behind), and that will provide a clear line of sight, within 23 feet/7 meters, between the C 717's front panel and your primary listening/viewing position. This will ensure reliable infrared remote control communications. The C 717 generates a modest amount of heat, but nothing that should trouble adjacent components. It is perfectly possible to stack the C 717 atop other components, but the reverse usually should be avoided.

Nonetheless, it is generally preferable that the C 717 stands alone. It is especially important that sufficient ventilation be provided. If you are contemplating locating the C 717 within a cabinet or other furniture, consult your NAD audio/video specialist for advice on providing adequate airflow.

QUICK START

In case you simply cannot wait to experience the performance of your new NAD C 717 DVD Receiver, we provide the following "Quick Start" instructions to get you underway. Before the steps below, connect your C 717 to a TV/monitor.

Please make all the connections to your C 717 with the unit unplugged. It is also advisable to power-down or unplug all associated components while making or breaking any signal or AC power connections.

PLAY A CD OR DVD MOVIE

- 1 Connect the C 717's "VIDEO OUT" jack to your TV/monitor's corresponding input.
- 2 Connect your left and right front speakers to the C 717's "L" and "R" outputs. Make sure to connect red to red ("+") and black to black ("-") with care to avoid stray wires or strands crossing between terminals. If your system includes a powered subwoofer, connect the C 717's "SUBW OUT" jack to its line input.
- 3 Plug the AC mains plug into the AC outlet; The Standby LED on the front panel will be illuminated amber indicating the C 717 is in standby mode ready to accept commands from either the front panel Standby switch or the SR 9 remote control.
- 4 Press the STANDBY button to turn ON the C 717. The Standby LED indicator will turn from amber to blue and illuminate the Vacuum Fluorescent Display (VFD).
- 5 To start playback of the internal DVD player; press "DVD" at the SR 9 remote's DEVICE SELECTOR section and then, press [OPEN/CLOSE] button.
- 6 Insert the media and press [▶] button to start playback. You should hear stereo sound, and see an image on the TV/monitor. If one or the other fails to appear, you may need to use either the C 717's on-screen menu system to check assignment of audio and video inputs (Refer also to the item about VIDEO OUT under the USING THE C 717's INTERNAL DVD PLAYER - SETUP MENU section of the OPERATION page).

Enjoy the movie or music, but be sure to set aside time to read this manual thoroughly, and to set up, calibrate, and configure your C 717 carefully and completely.

ABOUT THE C 717

Though the C 717 is among the most technically sophisticated integrated Stereo DVD receivers, we worked hard to make it one of the most musically transparent home-theatre components available as well - this is what we mean by NAD's "Music First" design philosophy. Here are just a few examples:

- High-performance components used throughout the C 717's analog audio circuits to maximize quality from all sources.
- The C 717 incorporates a high quality DVD player with exceptional playability. It has support for DVD Video, DVD±R, DVD±RW, VCD/SVCD with playback control (PBC), Audio CD and CD-R/CD-RW that contains audio titles, DivX, MP3, WMA and JPEG files.
- Gold-surfaced connectors are employed throughout to ensure maximum signal integrity.

EASE OF USE

Despite the effort NAD has invested in the C 717's sonic performance, we expended no less in making it powerfully easy to use. Its design is uniquely simple for so sophisticated a component, and the SR 9 remote control is equally understandable, as are the C 717's own front panel and on-screen displays (OSD).

DEALING WITH HUM AND NOISE

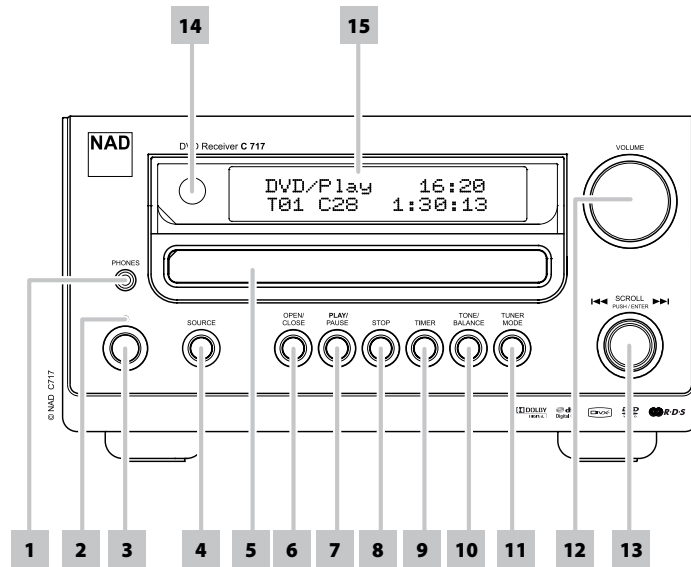
Hum and noise sometimes may prove a challenge in audio systems. Note these considerations to help prevent hum and noise problems:

- Power all your system's audio component from AC outlets originating from the same circuit of your house wiring. As far as possible, power all audio components from the same outlet, or adjacent outlets on the same circuit. It may be useful to power video displays (and computers!) from outlets on another circuit, especially if that circuit is supplied from the other "leg" of the house wiring.
- Do not bundle analog audio cables with AC power cables, or with coaxial digital-audio cables. It is best if they cross at right angles if they must be in close proximity.
- Employ high-quality, well-shielded audio cable throughout, and ensure that all connections are secure.
- A pencil-eraser can be used to burnish copper- and gold-plated contacts to ensure good, low-resistance contact; specialized contact-cleaners can also be useful. Avoid unnecessary unplugging and re-plugging since the gold (or copper) contact plating of typical cable connectors, even very high-quality ones, is very thin and easily worn.

Track down hum/noise problems one component at a time, working backwards from the C 717. That is:

- 1 Connect the speakers to the C 717 only, and check for hum.
- 2 Then connect one component only (a CD player, for example) alone, with no other components connected and check for hum.
- 3 Connect additional components, one at a time, to the C 717 and check for hum.

At each stage, if hum/noise appears, examine the audio cabling and AC-power routing of the new component. In some cases, moving the new component's AC cord to a different outlet, or installing a ground-lift (3-to-2-prong adapter) on its power cord, will eliminate the hum.



1 PHONES: Accepts stereo headphone using a standard 1/8-inch stereo phone plug. Plugging in your headphone automatically mutes output from the speakers and subwoofer output (but not from the VCR OUT jacks of the VCR). The VFD will show "H/P ON" when you headphone is plugged in to this jack and "H/P OUT" when unplugged.

2 STANDBY LED: This indicator will light up amber when the C 717 is in standby state. When the C 717 is at ON state, this indicator will illuminate blue. This indicator will extinguish itself when the power cable is unplugged from the AC supply.

3 STANDBY: Press this button to switch ON the C 717. The Standby LED indicator will turn from amber to blue and illuminate the Vacuum Fluorescent Display (VFD). Pressing the Standby button again turns the unit back to standby mode. It is usual (and perfectly acceptable) to leave the C 717 in standby mode in between normal viewing and listening sessions.

The C 717 can also be switched ON from standby mode by pressing [OPEN/CLOSE] or [PLAY/PAUSE] buttons on the front panel as well as on the remote control.

If the disc tray is open and the Standby button is pressed, the disc tray will draw close and the C 717 goes to standby mode.

Note that when you do choose to switch off to standby mode using the front panel Standby button, the C 717's memory back-up system will store tuner preset and other settings for several weeks while the unit is switched off.

4 SOURCE: Toggle to select desired Source as follows

Internal DVD → Internal FM tuner → Internal AM tuner → TV → VCR then back to Internal DVD.

Refer also to the item about SELECTING SOURCES under the SETTING UP THE C 717 section of the SETUP page.

5 DISC TRAY: With the DISC TRAY open, insert a DVD, CD or other compatible media disc face down onto the tray. If the disc is placed upside down and it is a single sided disc or there is no disc loaded, "NO DISC" appears on both the C 717's VFD and the TV/Monitor screen.

6 OPEN/CLOSE: Press this button to open and close the disc tray and simultaneously select the internal DVD player. When in standby mode, this button will also power ON the C 717 and at the same time open the disc tray.

7 PLAY/PAUSE: This dual-function button alternates between starting and stopping playback. Press this button to toggle between Play and Pause of a DVD, CD or other compatible media disc. Press to start play or resume play after Pause. If the disc tray is open, press this button to automatically close the tray and start playback if a disc is loaded.

During playback, press this button to stop playback temporarily, keeping the optical pickup at its current position on the disc. To resume playback at the exact point where it stopped, press [PLAY/PAUSE] again.

8 STOP: During playback, press this button to stop and at the same time pause playback of disc – "PRESS PLAY TO CONTINUE" or "STOP" will be briefly displayed in the OSD and "RESUME" in the VFD. If [STOP] button is pressed consecutively during playback, disc playback will fully stop.

9 TIMER: In combination with the [SCROLL/PUSH/ENTER] knob, toggle this button to cycle through the following timer modes:

→ Time → Timer → SLEEP →

Refer also to OPERATION - SETTING UP THE TIMER page.

IDENTIFICATION OF CONTROLS

FRONT PANEL

10 TONE/BALANCE: Toggle this button to adjust BASS, TREBLE and BALANCE CENTER settings in combination with [SCROLL/PUSH/ENTER] knob. Refer also to the item about ADJUSTING TONE AND BALANCE CONTROLS under the SETTING UP THE C 717 section of the SETUP page.

11 TUNER MODE: In AM or FM mode and in combination with the [SCROLL/PUSH/ENTER] knob, toggle this button to select "Preset Tune" or "Manual Tune". Refer also to the item about TUNER MODE at the LISTENING TO AM/FM RADIO section of the OPERATION page.

12 VOLUME: Turn clockwise to increase the volume setting; counter clockwise to lower it. The VFD shows the VOLUME setting displayed as increments between 01 through to 59. "VOLUME MIN" will be displayed when volume setting is at its lowest level and "VOLUME MAX" when volume is at its highest level.

13 SCROLL/PUSH/ENTER [◀◀/▶▶]: In AM or FM mode and in combination with [TUNER MODE] knob, use this knob to step up or down stored presets or to manually tune AM/FM frequencies.

During disc playback, rotate this knob to skip UP/DOWN tracks, chapter or files.

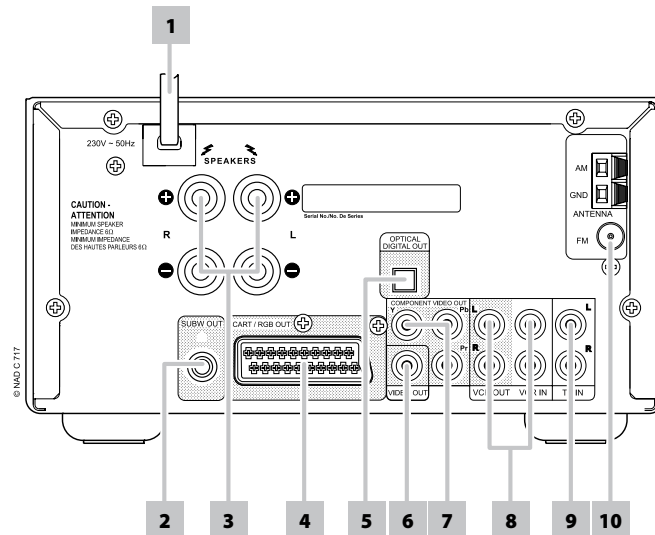
Use this knob in combination with [TIMER] button to setup Time, Timer or SLEEP settings.

14 REMOTE SENSOR: Point the SR 9 at the remote sensor and press the buttons. Do not expose the remote sensor of the C 717 to a strong light source such as direct sunlight or illumination. If you do so, you may not be able to operate the C 717 with the remote control.

Distance: About 23 ft (7 m) from the front of the remote sensor

Angle: About 30° in each direction of the front of the remote sensor

15 VACUUM FLUORESCENT DISPLAY (VFD): Provides visual information about the unit's important modes, settings, functions, status of the current source like disc playback time and other indicators.



ATTENTION!

Please make all the connections to your C 717 with the unit unplugged. It is also advisable to power down or unplug all associated components while making or breaking any signal or AC power connections.

- 1 AC POWER CORD:** Plug the AC power cord into a live AC wall socket. Make sure all connections have been made before connecting to mains. Connect only to the prescribed AC Outlet, i.e., 120V 60 Hz or 230V 50 Hz.
- 2 SUBW (SUBWOOFER) OUT:** Connect this output to a powered ("active") subwoofer or to a power amplifier channel driving a passive system).
- 3 SPEAKERS:** Connect the left and right terminals to the corresponding loudspeakers. Each output's "+" (red) terminal and "-" (black) terminal must be connected to the corresponding "+" and "-" terminals of the loudspeaker. Use extra care to ensure that no stray wires or strands cross between posts or terminals at either end.
- 5 OPTICAL DIGITAL OUT:** Connect the OPTICAL DIGITAL OUT port to the corresponding S/PDIF digital input of a receiver, computer soundcard or other digital processors.
- 6 VIDEO OUT:** Connect to the corresponding composite video input of a compatible monitor/television, projector, A/V receiver or processor using quality dual-RCA cable designed for video signals.
- 7 COMPONENT VIDEO OUT:** Connect the C 717's "COMPONENT VIDEO OUT" to the component video input of a compatible video monitor/TV. Be sure to observe consistency in connecting the appropriate Y, Cb/Pb, Cr/Pr jacks to the corresponding sources/inputs. Do not rely purely on the color coding of the jacks, which may not always be consistent among brands. The routing of the component video output is fixed.

NOTES

- Use stranded wire of at least 16-gauge (AWG); specialized speaker cable may be valuable (consult your NAD audio specialist). Connections to the C 717 can be made with banana-type plugs, or using bare wire, or pins, by loosening the terminal's plastic nut, making a clean, neat connection, and re-tightening carefully. To minimize the danger of short-circuits, ensure that only 1/2-inch of exposed wire or pin is employed in connecting.
 - This unit is designed to produce optimum sound quality when connected to speakers with impedances within the C 717's operating range. Please check that speakers are rated to be 6 ohms minimum per speaker.
- 4 SCART/RGB OUT:** Connect the C 717's "SCART/RGB OUT" to the SCART/RGB video input of a compatible video monitor/TV. Be sure to observe the correct orientation of the SCART/RGB plug. Make sure also to set "VIDEO OUT" to "RGB" at the SETUP menu for stable video availability at SCART/RGB OUT.

NOTES

- Make sure to set "VIDEO OUT" to "COMPONENT" at the SETUP menu for video to be available at Component Video OUT. Refer also to the item about VIDEO OUT under the USING THE C 717's INTERNAL DVD PLAYER - SETUP MENU section of the OPERATION page.
 - "COMPONENT VIDEO OUT" will only display the internal DVD video signals.
- 8 VCR IN/OUT:** VCR may be used with recording components such as a cassette deck. Connect analog stereo audio from such source components into the C715's VCR IN. Connect the C 717's VCR OUT to the source components' record-input. Note that VCR may freely be used for play-only components, in which case the OUT jacks would remain unconnected.

NOTES

- There will be no output at VCR OUT when VCR is active source input. This prevents feedback through the recording component thereby preventing possible damage to your speakers.
- VCR IN/OUT is for audio signal only.

IDENTIFICATION OF CONTROLS

REAR PANEL

- 9 TV:** Input for additional line level input signals such as TV, Mini Disc player or the output signal from a step-up amplifier for a turntable. Use a twin RCA-to-RCA lead to connect the auxiliary unit's left and right "Audio Outputs" to this input.

NOTE

TV input port is for audio signal only.

- 10 FM, AM ANTENNA INPUT:** Connect the supplied lead-type FM antenna to the FM antenna input. Extend the lead. Experiment freely with your antenna placement and orientation until you get the clearest sound and lowest background noise. Fix the antenna in the desired position by using thumb tacks, push pins or any suitable means.

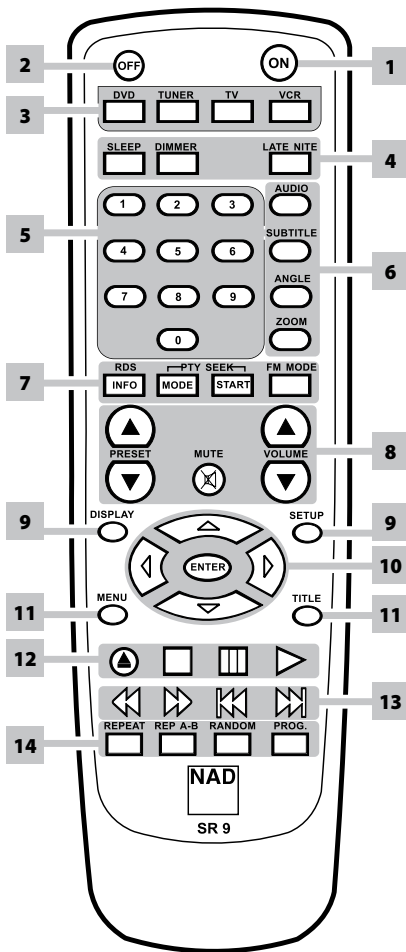
The AM loop antenna supplied with the C 717 (or a suitable replacement) is required for AM reception. Open the clip terminal lever; insert the wire making sure to match the color-coded (white and black) ends of the wire to that of the terminal and close the lever ensuring that the lever locks the wire in place. Testing different positions for the antenna may improve reception; vertical orientation will usually produce the best results. Antenna proximity to large metal objects (appliances, radiators) may impair reception, as will attempts to lengthen the wire to the loop.

NOTE

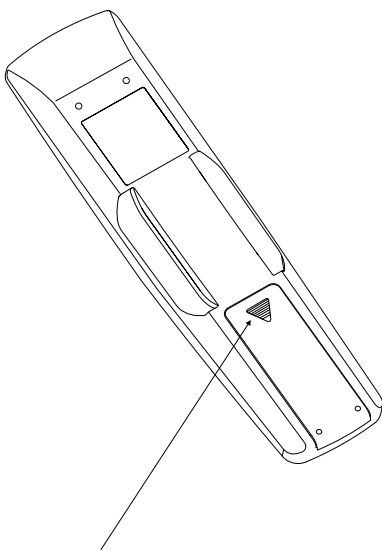
An external AM antenna can improve long distance reception substantially; consult your NAD audio specialist or a professional antenna installer. Do not connect anything other than a loop antenna to the AM ANTENNA terminal.

IDENTIFICATION OF CONTROLS

SR 9 REMOTE CONTROL

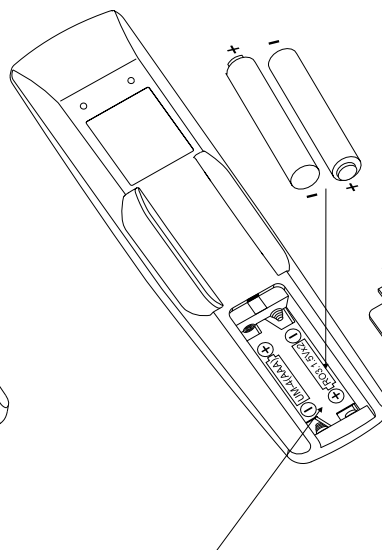


- 1 ON:** Switch C 717 ON.
- 2 OFF:** Switch C 717 OFF.
- 3 DEVICE SELECTOR:** Directly select a Source device – DVD, TUNER, TV or VCR.
- 4 SLEEP:** Set sleep mode timer.
DIMMER: Reduce or restore VFD brightness.
LATE NIGHT: Make soft sounds comparatively louder while limiting peak loudness of loud ones.
- 5 NUMERIC KEYS:** Direct input of tracks for CD players or direct recall of stored presets.
- 6 AUDIO:** Select an audio language.
SUBTITLE: Select a subtitle language
ANGLE: Select a DVD camera angle if available.
ZOOM: Enlarge video image.
- 7 RDS/INFO:** Show RDS display options.
PTY/MODE: Display PTY modes.
SEEK/START: Start PTY search.
FM MODE: Switch between FM Stereo and FM Mono mode.
- 8 PRESET [▲/▼]:** Step up or down between stored radio presets.
MUTE: Temporarily switch OFF the sound to the speakers and headphones.
VOLUME [▲/▼]: Adjust volume level.
- 9 DISPLAY:** Show disc OSD and other display information.
SETUP: Access or remove setup menu.
- 10 [▲/▼/◀/▶]:** Select an item in a menu.
ENTER: Acknowledge menu selection.
- 11 MENU:** Access menu on a DVD disc.
TITLE: Display the disc Title menu, if available.
- 12 [▲]:** Open or close disc tray.
[■]: Stop playback.
[||]: Pause playback temporarily.
[▶]: Start playback.
- 13 [◀◀/▶▶]:** Fast reverse/forward search.
[◀◀/▶▶]: Go to beginning of current track/file/chapter or to previous track/file/chapter; go to next track/file/chapter.
- 14 REPEAT:** Repeat track, all, chapter, title, file, folder.
REP A-B: Repeat sequence.
RANDOM: Play tracks/files in random order.
PROG: Enter or exit program mode.

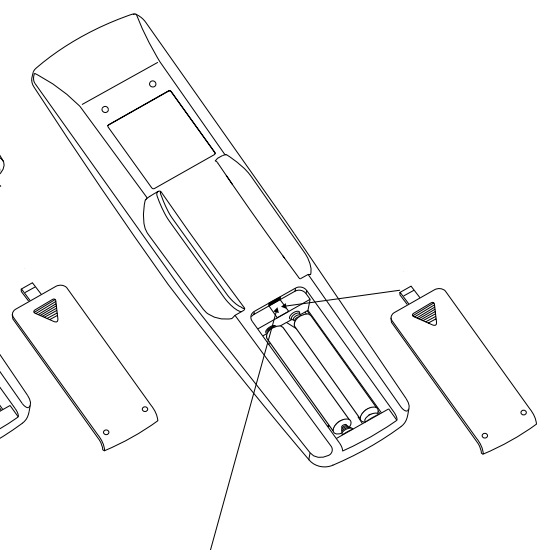


BATTERY ASSEMBLY

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.

SETUP

SETTING UP THE C 717

ABOUT THE ON-SCREEN DISPLAY (OSD)

The C 717 employs a self-explanatory on-screen display "menu" that will appear on the connected video monitor/TV. These are required during the setup process (and are useful in day-to-day operation), so be sure to connect the monitor/TV before proceeding with setup.

DISPLAYING THE SETUP MENU OSD

While in DVD mode, press the C 717's [SETUP] button momentarily for the DVD's Setup Menu OSD to appear. With the use of the SR 9's navigation buttons, you may select various menus. If the Setup Menu does not appear, check your applicable video connections.

NAVIGATING THE SETUP MENU OSD AND MAKING CHANGES

To navigate through the Setup Menu OSD options, please do the following using the SR 9 remote control:

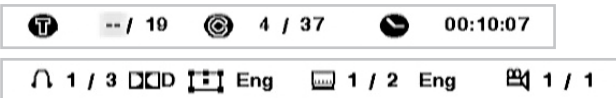
- 1 Press [▲/▼] keys to move up or down the menu selections.
- 2 Release [▲/▼] key to stop at a particular menu item.
- 3 Use [◀/▶] keys to select through the options of a particular menu.
- 4 Press [ENTER] to select a desired option and at the same time move on to the next menu item.
- 5 Press [SETUP] or [▶] to exit the Setup menu.

NOTE

The SETUP menu OSD is accessible only at DVD mode.

DISPLAY DISC OSD

You can display the general disc playback status on the TV screen. Some items can be changed using the menu. To use the on-screen display:



- 1 Press the SR 9's [DISPLAY] during playback.
- 2 Press [◀/▶] to select an item. The selected item is highlighted.
- 3 Key-in the desired the number button or press [ENTER] as applicable.

NOTES

- *The display feature may not be available for all disc media and is media dependent.*
- *Display disc OSD does not apply to audio discs with MP3/WMA/JPEG files as they are already presented in their respective menu screens.*
- *The front panel and SR 9's [DISPLAY] button toggles between title/chapter/time and audio/subtitle/angle display configurations.*
- *If no button is pressed for about 30 seconds, the on-screen display disappears.*

SELECTING SOURCES

You can choose your desired source by rotating the [SCROLL/PUSH/ENTER] knob to select through the following:

Internal DVD → Internal FM tuner → Internal AM tuner → TV → VCR → then back to Internal DVD.

The same source can be directly selected using the SR 9 remote control. Directly select a Source device - [DVD], [TUNER], [VCR] and [TV]. Toggle the SR 9 [TUNER] button to switch between AM and FM mode.

When you change sources, the VFD will show the selected source in its upper line display.

ADJUSTING THE VOLUME

In addition to the Volume knob, use the SR 9's [VOLUME ▲/▼] to adjust the volume level of the C 717 raising or lowering the channels altogether. A momentary keypress will change the master volume by 1 dB increments. If you hold down [VOLUME ▲/▼], the volume change will "run-on" until the key is released.

Since recordings vary considerably in overall average level, there is no imperative to listen at any particular volume setting. A setting of "VOLUME 20" may sound "as loud" from one CD or DVD as "VOLUME 10" does from another.

The C 717 will power-up from Standby mode at whatever volume setting it was last used; however, if the prior setting was greater than "VOLUME 40", the C 717 will power up at "VOLUME 25". This prevents inadvertently beginning a session at excessive volume.

MUTING THE SOUND

Use the SR 9's [MUTE] key to silence all channels completely. "MUTE" is shown flashing in the VFD. Muting is always available regardless of the source or listening mode selections.

NOTE

Adjusting the volume via the SR 9 or the front-panel knob automatically releases the mute function.

ADJUSTING TONE AND BALANCE CONTROLS

Toggle the [TONE/BALANCE] button to step through the following modes - "BASS," "TREBLE" or "BALANCE CENTER". Select the feature you want to adjust and within 3 seconds, turn [SCROLL/PUSH/ENTER] clockwise or counterclockwise to change the level settings.

BASS AND TREBLE

Treble and bass controls only affect the low bass and high treble leaving the critical midrange frequencies free of coloration. Maximum and minimum values for both Tone Control levels are $\pm 10\text{dB}$.

BALANCE

The BALANCE control adjusts the relative levels of the left and right speakers. The BALANCE CENTER position provides equal level to the left and right channels. BALANCE can be adjusted to the following levels - "BALANCE R+1" up to "BALANCE R" or "BALANCE L+1" up to "BALANCE L +6".

FACTORY DEFAULT SETTINGS

Sometimes power spikes and drop-outs may from time to time cause some inadvertent functionality. The procedure below will set the C 717 to factory default settings

- 1** Turn OFF C 717 by pressing the STANDBY button in the front panel or SR 9 remote control's [OFF] key.
- 2** Press and hold front panel's [TUNER MODE], [SOURCE] and STANDBY buttons for more than two seconds. The C 717 will switch itself back ON. "SERVICE MODE" will be shown in the upper line of the VFD and below it are details about the current software program.
- 3** Press and hold [TUNER MODE] button and release it as soon as the VFD blinks. The C 717 will switch itself to standby mode. The C 717 is now restored to its factory default settings.

Please note that setting the C 717 to factory default will delete all AM and FM presets. The timer settings will also be restarted.

OPERATION

USING THE C 717'S INTERNAL DVD PLAYER

You may operate the C 717 DVD Receiver from its front panel or via the SR 9 remote control. Since the remote will be the primary controller for most cases, we will focus on remote-controlled operations. Be sure also to read the section, "IDENTIFICATION OF CONTROLS - FRONT PANEL".

REGION MANAGEMENT INFORMATION

The C 717's internal DVD Player is designed and manufactured to respond to the Region Management Information that is recorded on a DVD disc. If the Region number described on the DVD disc does not correspond to the Region number shown on the back of the C 717, the C 717 cannot play that disc. The OSD will display "Region Error" ("REGION Err" in the display window) when an incompatible region disc is loaded.

PLAYABLE DISCS

The C 717 has exceptional playability. It has support for DVD video, DVD±R, DVD±RW, VCD/SVCD with playback control (PBC), Audio CD and CD-R/CD-RW that contains audio titles, DivX, MP3, WMA and JPEG files.

NOTE

You cannot playback discs other than those listed above. To do so may render the C 717 permanently inoperable.

DISC LOADING AND PLAYBACK

There are two different disc sizes. Place the disc in the correct guide on the disc tray. If the disc is out of the guide, it may damage the disc and cause the C 717 to malfunction. "NO DISC" appears on both the C 717's display and the TV/monitor screen, if the disc is placed upside down (and it is a single sided disc).

The following are important tips when loading a disc

- Do not push the disc tray while it is moving. Doing so may cause the C 717 to malfunction.
- Do not push up the disc tray or put any objects other than discs on the disc tray. Doing so may cause the C 717 to malfunction.
- Keep your fingers well clear of the disc tray as it is closing. Be especially careful with children's fingers around the closing disc tray, as there is a risk of personal injury.

Press [▶], the disc tray is automatically closed. Playback of the first track starts if a CD is loaded. For DVD or other disc media, playback operation is accessible through their menu screen.

NOTES

- *During SVCD/VCD playback, press the [MENU] button to turn ON or OFF the Playback Control (PBC).*
- *Do not move the C 717 during playback. Doing so may damage the disc and the C 717.*

ABOUT THE Ⓞ SYMBOL DISPLAY

"Ⓞ" may appear on your TV display during operation. This indicates that the function you entered or try to execute is not available on that specific disc or file.

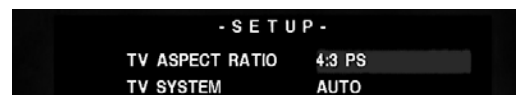
SETUP MENU



The Setup Menu allows one to customize the operation of the C 717. If the factory defaults do not suit your taste, you will need to use the setup menu to configure the C 717 yourself.

To access and navigate through the Setup Menu selections, please refer to and follow the directions stated in the above section about "NAVIGATING THE SETUP MENU OSD AND MAKING CHANGES." The Setup Menu is only available at DVD mode.

TV ASPECT RATIO



Set TV ASPECT RATIO to select a picture size matching the aspect ratio of your TV/Monitor.

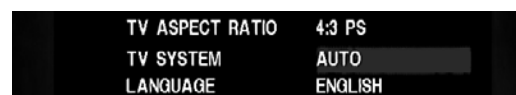
Select "4:3 LB" or "4:3 PS" when a standard 4:3 TV is connected.

4:3 LB: Displays a wide picture with bands on the upper and lower portions of the screen.

4:3 PS: Automatically displays the wide picture on the entire screen and cuts off the portions that do not fit.

16:9: Select when a 16:9 wide TV is connected.

TV SYSTEM



The "AUTO" setting will automatically detect the media being played and display it. The other two settings, "NTSC" and "PAL", can be selected to force the output of the C 717 to the desired format. For example one can load a PAL media and display it in the NTSC format. Similarly one can load an NTSC media and display it in the PAL format.

Depending on the type of TV set you own, select the signal mode you wish to watch your disc.

LANGUAGE

TV SYSTEM	AUTO
LANGUAGE	ENGLISH
SUBTITLE	OFF

Select a language for the Setup menu and on-screen display. The following are the available languages – English, French, German, Dutch, Spanish, Italian, Russian and Swedish.

SUBTITLE

TV SYSTEM	AUTO
LANGUAGE	ENGLISH
SUBTITLE	OFF
DOWN SAMPLING	OFF

Depending on the DVD media, only those subtitle languages recorded on the DVD media are available. When a language is chosen, it will become the default setting unless the DVD media overrides the settings.

Select among English, French, German, Dutch, Spanish, Italian, Russian and Swedish as the desired language subtitle. If you choose for the disc subtitle not to come up, select "OFF".

DOWN SAMPLING

SUBTITLE	OFF
DOWN SAMPLING	OFF
DIGITAL OUTPUT	BITSTREAM
PARENTAL LOCK	UNLOCK

Discs are recorded at certain sampling rates. By setting "DOWN SAMPLING" at "ON", the C 717 allows an LPCM audio source that has a sampling rate higher than 48 kHz to be down sampled to 48 kHz. Leave at "OFF" for the audio source to remain at its native sampling rate.

DIGITAL OUTPUT

DOWN SAMPLING	OFF
DIGITAL OUTPUT	BITSTREAM
PARENTAL LOCK	UNLOCK
P-SCAN	OFF

Each DVD disc has a variety of audio output options. Set the player's "DIGITAL OUTPUT" according to the type of audio system you use.

BITSTREAM: Select "BITSTREAM" if you connect the C 717's digital OUT jack to an amplifier or other equipment with a Dolby Digital, DTS or MPEG decoder.

PCM: Select when connected to a two-channel digital stereo amplifier. DVDs encoded in Dolby Digital or MPEG will be automatically downmixed to two-channel PCM audio.

PARENTAL LOCK (NTSC RATED DISCS ONLY)

DIGITAL OUTPUT	BITSTREAM
PARENTAL LOCK	UNLOCK
P-SCAN	OFF
SCREEN SAVER	ON

Some movies contain scenes that may not be suitable for children to view. Many of these discs contain parental control information that applies to the complete disc or to certain scenes on the disc. Movies and scenes are rated from 1 to 7 and Adult, depending on the country. Some discs offer more suitable scenes as an alternative.

The parental lock feature allows you to block access to scenes greater than the rating you input, thereby preventing your children from being able to view material you believe is unsuitable. To activate "PARENTAL LOCK," please be guided by the following:

- 1 Press [ENTER] from "UNLOCK" option.
- 2 The first time you input a password, use the factory default password 1234. Upon entering the password, you will automatically go to "UNLOCK" (or any current "Level ___" setting) option of the "RATING" section. Select a rating from LEVEL 1 to LEVEL 7 or Adult and then press [ENTER].
- 3 Scroll down to "DONE" if you have finished setting the "RATING" level or to exit from the PASSWORD menu.

LEVEL 1-7, ADULT

LEVEL 1 has the most restrictions and "ADULT" is the least restrictive.

UNLOCK

If you select UNLOCK, parental lock is not active and the disc plays in full.

PASSWORD

If you want to change your password, you can change it by selecting "PASSWORD CHANGE" and then press [ENTER]. You will be prompted to a new menu window where you will have to enter your existing PASSWORD. Then, input your NEW PASSWORD using the numeric buttons on the SR 9 remote. Input again your new password to "CONFIRM PASSWORD."

PASSWORD	----
RATING	UNLOCK
PASSWORD CHANGE	OFF

PASSWORD	----
NEW PASSWORD	----
CONFIRM PASSWORD	----

NOTES

- If you set a rating for the player, all disc scenes with the same rating or lower are played. Higher rated scenes are not played unless an alternate scene is available on the disc. The alternative must have a lower rating. If no suitable alternative is found, playback stops. You must enter the 4-digit password in order to play the disc.
- Should you forget your password, restore the C 717 to its factory default settings (See "FACTORY DEFAULT SETTINGS" under the heading "SETUP - SETTING UP THE C 717").

OPERATION

USING THE C 717'S INTERNAL DVD PLAYER

P-SCAN

DIGITAL OUTPUT	BITSTREAM
PARENTAL LOCK	UNLOCK
P-SCAN	OFF
SCREEN SAVER	ON

If your television is a high-definition or "digital ready" television, you may take advantage of the C 717's progressive scan output for the highest video resolution possible.

To activate Progressive Scan, set first "VIDEO OUT" (see "VIDEO OUT" section below) to "COMPONENT".

Then, select "ON" at "P-SCAN" menu to activate Progressive Scan output. Select "OFF" to maintain normal Component Video Output.

SCREEN SAVER

P-SCAN	OFF
SCREEN SAVER	ON
VIDEO OUT	COMPONENT
DIVX CODE	DISPLAY

When you set "SCREEN SAVER" to "ON", a screen saver in the form of an NAD logo appears when you leave for about fifteen minutes the C 717's internal DVD player at Stop or Pause mode. If the Screen Saver continues to be displayed for another thirty minutes, the C 717 automatically turns itself off.

VIDEO OUT

SCREEN SAVER	ON
VIDEO OUT	COMPONENT
DIVX CODE	DISPLAY

Select among "COMPONENT" and "RGB" as your preferred video output media. Make sure the appropriate video out of C 717 is connected to the corresponding video input of your TV/monitor.

NOTES

- If "RGB" is selected, there is no component video output.
- Component video out will only display the internal DVD video signals.

DIVX CODE

SCREEN SAVER	ON
VIDEO OUT	COMPONENT
DIVX CODE	DISPLAY

DivX is the name of a revolutionary new video codec which is based on the new MPEG-4 compression standard for video. You will be able to play DivX discs using the C 717's internal DVD player. The Registration code details necessary for VOD (Video-On- Demand) service can be shown by pressing "DISPLAY".



USING THE C 717'S INTERNAL DVD PLAYER – FEATURES

Depending on the media, the following are other basic features of the C 717's internal DVD player. Included also below are some SR 9 buttons that have no corresponding buttons in the front panel. Make sure that you select "DVD" at the Device Selector selection of the SR 9 before you proceed with the specific function.

TITLE AND MENU BUTTONS



Both these buttons are only found on the SR 9. The [TITLE] and [MENU] buttons are used to display via OSD, the title headings and menus of the DVD and other applicable media. Some movie discs may contain two or more titles. If the disc has a title menu recorded on it, the [TITLE] button can be used to select the movie title. (The details of operation differ depending on the disc used.)

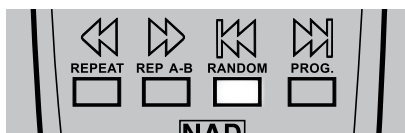
Press [TITLE] and a list of the titles on the disc are displayed. Depending on the disc, pressing [TITLE] again will resume play from the scene when [TITLE] was first pressed.

Press [ENTER], [▶] or the numeric button(s) to select desired title. The selected title now starts playing.

Some DVDs have unique menu structures called DVD menus. For example, DVDs programmed with complex contents provide guide menus, and those recorded with various languages provide menus for audio and subtitle language.

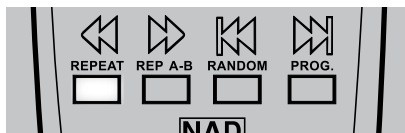
Press [MENU] during play; the DVD menu available on the disc is now displayed. Pressing [MENU] again resumes play from the scene when [MENU] was first pressed.

RANDOM



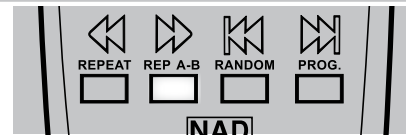
Press the SR 9's [RANDOM] key during playback and "RANDOM ON" briefly appears on the TV screen. A corresponding "CD/Random Play" is showed in the upper line of the VFD. By pressing [◀◀/▶▶], random playback automatically begins. Press [RANDOM] again to return to normal playback.

REPEAT



To repeat the playback of a particular track, file or chapter, press the SR 9's [REPEAT] key once. Pressing the same [REPEAT] key a second time will repeat all the tracks, folder or title. Turn off repeat mode by pressing [REPEAT] button a third time.

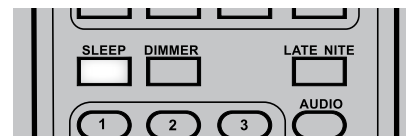
REP A-B



To repeat a sequence, implement the following procedures:

- 1 Press [REP A-B] at your chosen starting point - "A TO B SET A" appears briefly on the TV screen.
- 2 Press [REP A-B] again at your chosen end point - "A TO B SET B" appears briefly on the TV screen. The repeat sequence begins.
- 3 Press [REP A-B] again to cancel the sequence - "A TO B CANCELED" appears briefly on the TV screen.

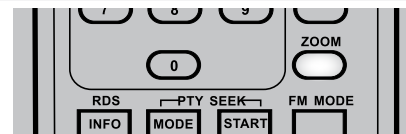
SLEEP



The Sleep Mode timer will switch the C 717 to Standby mode automatically after a preset number of minutes. When [SLEEP] is pressed, the VFD's brightness will decrease.

- 1 To adjust the sleep delay, press the SR 9's [SLEEP] button twice, first to display the sleep time increment and a second time to change the sleep time increment. The sleep time increment and a "SLEEP" icon will be shown in the VFD. Each consecutive press increases the sleep time in 30-minute increments from "SLEEP -30" up to "SLEEP -120" minutes.
- 2 To cancel the sleep mode, continue pressing the SR 9's [SLEEP] button past the "SLEEP -120" or when the VFD is restored to its normal brightness. Switching the C 717 to standby from either the SR 9's OFF or the C 717's Standby button will also cancel the sleep mode.

ZOOM



Use ZOOM to enlarge the video image. Press [ZOOM] during playback or still playback to activate the Zoom function. Depending on the media, each press of the ZOOM button changes the TV screen in the following sequence: ZOOM X 2, ZOOM X 4, ZOOM X 16 and ZOOM X 32. Use the SR 9 [▲/▼/◀/▶] keys to move through the zoomed picture. To resume normal playback, press ZOOM repeatedly until "ZOOM OFF".

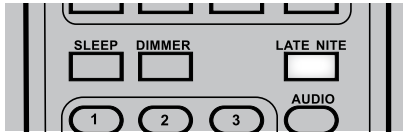
NOTE

Zoom may not work on some DVDs.

OPERATION

USING THE C 717'S INTERNAL DVD PLAYER – FEATURES

LATE NIGHT

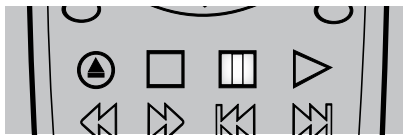


Night listening mode allows one the option to make soft sounds comparatively louder while limiting the peak loudness of loud ones. It is useful when you watch your favorite action movie without disturbing others at night. Toggle [LATE NIGHT] to switch between "NIGHT ON" and "NIGHT OFF" mode.

NIGHT ON: The "NIGHT ON" setting is for late-night sessions or other times when you wish to retain maximum dialog intelligibility while minimizing overall volume levels. This is applicable only for Dolby Digital soundtracks.

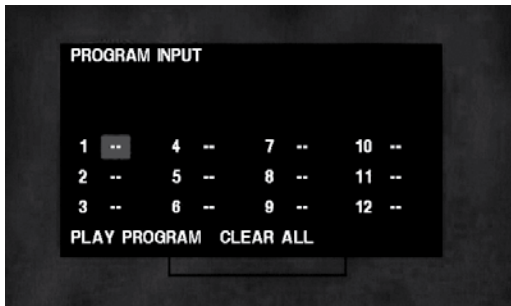
NIGHT OFF: To maintain full dynamic range, set to "NIGHT OFF".

STILL PICTURE AND FRAME-BY-FRAME PLAYBACK



Press [PAUSE] on the remote control or [PLAY/PAUSE] on the front panel during playback. Advance the picture frame-by-frame by pressing [▶▶] repeatedly. To exit still motion mode, press [PLAY].

PROGRAMMING



The program function enables you to store your favorite tracks from any disc in the player memory. When programming a sequence of tracks, the C 717 must be in STOP mode. To program the sequence

- 1 Press the SR 9's [PROG] button to enter program mode and you will be prompted to a "PROGRAM INPUT" menu.
- 2 Use the number buttons to enter the desired track into the program. Press the [▲/▼/◀/▶] keys to move up or down the sequence and at the same time store the keyed-in track. To edit the programmed tracks, return to the particular program number and re-enter your desired track number. Scroll down to "CLEAR ALL" to reset the whole program sequence.
- 3 Load up to 12 tracks into a program sequence. Press the [PLAY] button or scroll down to "PLAY PROGRAM" to start the program sequence. The upper line of the VFD will show "CD/Program" during program playback.

NOTE

Programming of MP3/WMA files is not supported by the C 717.

PLAYING MP3/WMA/JPEG

The C 717 can play MP3/WMA formatted recordings on CD-R or CD-RW discs as well as view discs with JPEG files. You may mix any of the file types on the disc.

- 1 Load the applicable disc. The OSD will display the folders or files as a list. Use the SR 9's [▲/▼/◀/▶] keys to navigate through the folders or files. You must be at stop mode to access folders on the left side of the menu window.
- 2 While at the desired file, press [ENTER] or [PLAY] to start playback.

When available, information about the Song, Album, Genre, Artist, Year and Comment will be displayed in the lower section of the window screen.

RANDOM PLAY

Press the SR 9's [RANDOM] button for random playback of applicable file types within the current folder. To initiate random playback across all available MP3/WMA files or folders, toggle [REPEAT] button until "FOLDER REPEAT" appears in the OSD. Thereafter, press [RANDOM] and [▶] to start random playback.

RANDOM playback for JPEG files applies only to available JPEG files and will not include MP3/WMA and vice-versa.

REPEAT

Press the SR 9's [REPEAT] button repeatedly to repeat a single file, folder, the entire folder lists or until "REPEAT OFF." The OSD and VFD will display the repeat mode.

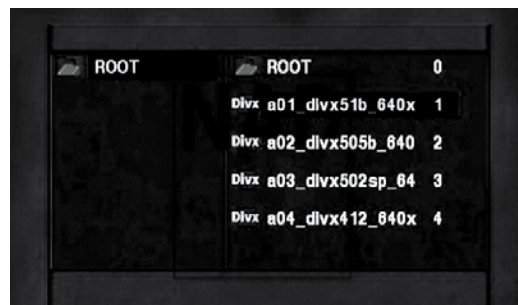
ROTATE PICTURE

Press [▲/▼/◀/▶] keys during the showing of a picture to rotate the picture "90 Deg", "180 Deg", "270 Deg" and back to "Original".



DIVX PLAYBACK

Using the C 717, you can play DivX discs.



- 1 Insert a disc and close the disc tray. The OSD will display the folders or files as a list.
- 2 Use the SR 9's [▲/▼] keys to navigate through the folders or files.
- 3 While at the desired file, press [ENTER] or [PLAY] to start playback.

ACTIVATE TIMER OPERATION

When pressed, the [TIMER] button in the SR 9 remote control will activate several timer modes. Toggle [TIMER] to step through the following modes:



Refer to the VFD, when setting up Time, Timer and SLEEP modes.

SETTING THE CLOCK

1 Toggle [TIMER] to step through the following modes:



- 2 At "Time" mode, press [SCROLL/PUSH/ENTER] knob - "hour" value blinks. Rotate [SCROLL/PUSH/ENTER] knob to set the current hour.
- 3 Press again the [SCROLL/PUSH/ENTER] knob - "minute" value blinks. Rotate [SCROLL/PUSH/ENTER] knob to set the current minute. Press [SCROLL/PUSH/ENTER] knob - both the set "hour" and "minute" blinks.
- 4 Press [SCROLL/PUSH/ENTER] knob to confirm the "Time" set and exit the "Time" setting mode.

NOTES

- The C 717 uses the 24 hour "military" clock.
- When no action is taken for 1 minute, the time adjust mode is cancelled.
- To cancel time mode setting, press [STOP].

SETTING THE ON/OFF TIMER

Adjust the clock before setting the timer.

- 1 Toggle [TIMER] until "Timer" is displayed in the VFD. Press [SCROLL/PUSH/ENTER] knob. "Timer Off" is displayed.
- 2 Rotate [SCROLL/PUSH/ENTER] knob to switch to "Timer On". Press again the [SCROLL/PUSH/ENTER] knob - "hour" value blinks.
- 3 Rotate [SCROLL/PUSH/ENTER] knob to set the desired hour setting.
- 4 Press again the [SCROLL/PUSH/ENTER] knob - "minute" value blinks. Rotate [SCROLL/PUSH/ENTER] knob to set the desired minute setting.
- 5 Press [SCROLL/PUSH/ENTER] knob - "SOURCE DVD" appears in the VFD.
- 6 Rotate [SCROLL/PUSH/ENTER] knob to select between "Source DVD" and "Source TUNER". The C 717 will wake up from Standby mode at either DVD mode or TUNER mode depending upon the default Source selected.
- 7 Press [SCROLL/PUSH/ENTER] knob - "Timer Off" appears on the VFD. "Timer Off" setting can only be set up to 90 minutes.
- 8 Rotate [SCROLL/PUSH/ENTER] knob to setup the desired minute setting.
- 9 Press [SCROLL/PUSH/ENTER] knob again to exit the "Timer" setting mode.

A red "clock face" will be illuminated in VFD upon setting up the Timer On/Off settings.

SETTING UP SLEEP TIMER

Adjust the clock before setting the timer.

- 1 Toggle [TIMER] until "SLEEP 00" (the default) is displayed in the VFD.
- 2 Rotate [SCROLL/PUSH/ENTER] knob to change the sleep time increment. Each click rotation of the [SCROLL/PUSH/ENTER] knob increases the sleep time in 5-minute increments from "SLEEP -00" to "SLEEP -60" minutes. From "SLEEP -60" setting, the sleep time increment changes into 10-minute increments. The Sleep time can be adjusted up to a maximum of "SLEEP - 240".
- 3 Press [SCROLL/PUSH/ENTER] knob to confirm the SLEEP setting and at the same time exit the SLEEP timer setting mode. A "SLEEP" icon will illuminate in the VFD.

When SLEEP mode is activated, the VFD's brightness will decrease. To return the VFD to its normal brightness, repeat the same procedure as above except for step 2; this time, rotate the [SCROLL/PUSH/ENTER] knob until "SLEEP -00".

OPERATION

LISTENING TO AM/FM RADIO

The C 717's internal AM/FM tuner offers very high quality sound from radio broadcasts. The reception and sound quality will always be dependent to a degree however on the type of antenna(s) used as well as proximity to the broadcast origin, geography and weather conditions.

SELECTING AM/FM

Press [SOURCE] button repeatedly until AM or FM mode. When using the [TUNER] button, toggle the [TUNER] button to select AM or FM band.

ABOUT ANTENNAS

Connect the supplied lead-type FM antenna to the FM antenna input. Extend the lead. Experiment freely with your antenna placement and orientation until you get the clearest sound and lowest background noise. Fix the antenna in the desired position by using thumb tacks, push pins or any suitable means. In areas of poor FM reception, an exterior FM antenna can improve performance dramatically. If radio listening is important to you, consider consulting an antenna installation professional to optimize your system.

The supplied AM "loop" antenna will usually provide adequate reception. However, an exterior AM antenna can be used to improve reception. Consult an antenna professional for more information.

ASSEMBLING THE 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.

TUNER MODE

Toggle front panel's [TUNER MODE] button and the upper display will show "Manual tune" or "Preset tune". Select either "Manual tune" or "Preset tune" by releasing the [TUNER MODE] button. Immediately rotate the [SCROLL/PUSH/ENTER] knob with reference to the following;

MANUAL TUNE

Rotate [SCROLL/PUSH/ENTER] knob momentarily to step up or down between AM or FM frequencies. Stop rotating when you find your desired station. You can also rotate quickly and release the [SCROLL/PUSH/ENTER] knob – the C 717 will stop at the next sufficiently strong signal it encounters.

PRESET TUNE

Use the [SCROLL/PUSH/ENTER] knob to step up or down between stored presets. The SR 9's [PRESET ▲/▼] key work similarly. Empty presets will be skipped during preset tuning.

CHOOSING THE FM MODE

In FM mode, the SR 9 [FM MODE] key is a dual-purpose control. In the normal position, ("STEREO" and "TUNED" icons are illuminated in the VFD) only the stations with a strong signal can be listened to and the noise between stations is muted.

Pressing the [FM MODE] button again ("STEREO" icon is extinguished; only "TUNED" is illuminated) allows distant and potentially noisy stations to be received. Noise is reduced if the FM station signal level is less than the FM stereo threshold (since mono FM is inherently less noise-prone) though at the sacrifice of stereo effect.

SETTING RADIO PRESETS

The C 717 can store up to 30 FM and 30 AM stations for immediate recall.

MANUAL PRESET

- 1 Toggle the SR 9's [TUNER] button to select AM or FM.
- 2 To store a radio preset, first tune the desired frequency (see above), then press the [SCROLL/PUSH/ENTER] knob. The next available preset number, for example, "11", starts blinking. Use the Direct-Entry numeric keypad buttons to enter the desired preset number. For example, to enter Preset number "1", press "0" and then "1". Note that as the first digit "0" is keyed-in, "0_" is blinking indicating that it is waiting for the second digit to be entered. Upon entering the second digit (i.e., number "1"), "01" stops blinking. This indicates that the first preset entry is completed. You can also press [SCROLL/PUSH/ENTER] knob to store the desired frequency in the displayed available preset number.
- 3 Repeat steps 1 and 2 to store up to 30FM and 30AM stations.

NOTES

- Instead of the using the numeric key pads of SR 9, you can instead rotate the [SCROLL/PUSH/ENTER] knob to select desired preset number allocation.
- A new station can be directly entered into an existing programmed Memory Preset. The new station will overwrite all the data previously held on that Preset number.

AUTOMATIC PRESET

Preset stations may also be programmed automatically for the entire FM (or AM) band.

- 1 Toggle the SR 9's [TUNER] button to select AM or FM band.
- 2 Press and hold front panel's [SCROLL/PUSH/ENTER] knob. Release [SCROLL/PUSH/ENTER] when the AM or FM frequency rapidly starts to move or change. Up to 30 of the best received FM stations (or 30 AM stations) will be automatically stored.

DELETE A PRESET

- 1 Select a Preset number to be deleted.
- 2 Press [STOP] button – current stored preset setting will be erased.

The Radio Preset can only be deleted using the front panel button.

RDS OPERATION

Radio Data System (RDS) transmits station call signs or network information, station program type, text messages about the station or specifics of a musical selection and the time.

Not every FM station incorporates RDS in its broadcast signal. In most areas you will find from one to several RDS-enabled stations, but it is by no means impossible that your favorite stations will not be broadcasting RDS data.

RDS MODE OPTIONS

When an RDS-enabled FM broadcast is tuned, a "RDS" icon will illuminate in the C 717's VFD.

Toggle SR 9's [RDS/INFO] button to show the following:

PROGRAM SERVICE

"Program Service" will blink for about 3 seconds and then the program service name or a station's name will be displayed. "P S" which stands for "Program Service" will be displayed in the upper left side of the VFD. If there is no program service data, the frequency will be displayed.

RDS PROGRAM TYPE

Program Type (PTY) allows users to find similar programming by genre. It will take 3 seconds for the Program Type to appear. In the meantime, the word "RDS PROGRAM TYPE" will flash in the display. When available, the Program Type is then displayed. "PTY" which stands for "Program Type" will be displayed in the upper left side of the VFD. Please find the section below about "PROGRAM TYPE (PTY)" for more information about RDS Program Type.

RDS RADIO TEXT

A Radio Text message containing special information from the RDS station will scroll through the VFD. It will take 3 seconds for the text message to appear. In the meantime, the word "RDS RADIO TEXT" will flash in the display. When available, the Radio Text is then displayed. "R T" which stands for "Radio Text" will be displayed in the upper left side of the VFD. If no Radio Text is available, the display will show the Program Service.

RDS CLOCK TIME

The current time of the day will be displayed as transmitted by the station. It will take 3-5 seconds for the time to appear. In the meantime, the word "RDS CLOCK TIME" will flash in the display. When available, the time is then displayed. Note that the accuracy of the time message is set by the radio station, not by the C 717. "C T" which stands for "Clock Time" will be displayed in the upper left side of the VFD. If there is no time data supplied, "00:00" will be displayed.

PROGRAM TYPE (PTY)

A major benefit of RDS is its ability to encode broadcasts with Program Type (PTY) codes that indicate the type of material being broadcast.

- 1 Toggle the [SOURCE] button to select FM band.
- 2 Press SR 9's [RDS/INFO] button until "RDS PROGRAM TYPE" is shown in the VFD. Immediately, press SR 9's [MODE] button to select "RDS PROGRAM TYPE" option.
- 3 Use SR 9's [PRESET ▲/▼] to select through the various program types.
- 4 Once you have found the program type you would like to listen, press SR 9's [START] button to start the PTY search (the Program Type and "SEARCH >" will interchangeably blink in the VFD).
- 5 When a compatible station is tuned, the search will stop. The C 717 is now tuned to the station with the corresponding PTY information.

NOTE

To abort PTY search, press SR 9's [START] button.

The following is a list of available Program Type selections.

News	News.
Current Affairs	Current Affairs.
Information	Information. References such as consumer guides, medical assistance and so on.
Sport	Sport.
Education	Educational and cultural information.
Drama	Drama.
Cultures	National and local culture including religious events, philosophy, theater and so on.
Science	Programs on natural science and technology.
Varied Speech	Popular programs such as quiz, entertainment, comedy, satire and so on.
Pop Music	Program on commercial, practical and popular songs
Rock Music	Practical modern music generally composed and played by young musicians.
Easy Listening	Easy listening music.
Light Classics M	Classical Music, instrumental music, chorus and light music.
Serious Classics	Orchestra including great operas, symphony, chamber music and so on.
Other Music	Other music styles (rhythm and blues, reggae, etc.)
Weather & Metr	Weather reports, forecast.
Finance	Financial reports, commerce, trading.
Children's Progs	Children's Programs
Social Affairs	Social Affairs
Religion	Religious programs
Phone In	Program in which public expresses its view by phone.
Travel & Touring	Travel reports
Leisure & Hobby	Programs concerning recreational activity.
Jazz Music	Jazz Music
Country Music	Country Music
National Music	National Music
Oldies Music	Music from the so-called golden years of popular music.
Folk Music	Folk Music
Documentary	Documentaries
Alarm Test	Alarm test
Alarm-Alarm!	A program notifying an emergency or a natural disaster.

REFERENCE

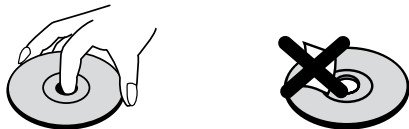
TROUBLESHOOTING

CONDITION	POSSIBLE CAUSES	POSSIBLE SOLUTIONS
No sound.	• AC power unplugged.	• Check AC cable connection and outlet.
	• Power not switched ON.	
	• Outlet has no power.	
No sound for one channel.	• Faulty/missing cables.	• Check cables.
	• "LEFT" or "RIGHT" channel at BALANCE adjust set to BALANCE L +6" or "BALANCE R +6".	• Set BALANCE adjust setting to "BALANCE CENTER".
No sound from Subwoofer.	• Subwoofer is OFF, not powered or improperly connected.	• Power-up subwoofer, check Sub's AC outlet or check connections.
The POWER is ON, but the internal DVD player does not work.	• No disk is inserted.	• Insert a disc.
No picture.	• The TV is not set to receive DVD signal.	• Select appropriate video input mode on your TV so that the picture from the C 717 appears on the TV screen output.
	• The video cable is not connected securely.	• Connect the video cable into the jacks securely.
	• The connected TV is turned OFF.	• Power ON the TV.
The playback picture is poor.	• The disc is dirty.	• Clean the disc.
The internal DVD player does not start playback.	• No disc is inserted.	• Insert a disc.
	• An unplayable disc is inserted.	• Insert a playable disc (Check the disc type and region code).
	• The disc is placed upside down.	• Place the disc with the playback side down.
	• A SETUP menu is on the TV screen.	• Press SR 9's [SETUP] to exit the menu screen.
Parental control cannot be changed.	• The password entered is wrong.	• Enter the correct password.
C 717 does not respond to remote control.	• Batteries are flat or incorrectly inserted.	• Check batteries.
	• IR transmitter window on remote or IR receiver window on C 717 is obstructed.	• Check IR windows and ensure clear line-of-sight from remote to C 717.
	• C 717 front panel is in very bright sunlight or ambient light.	• Reduce sunlight/room lighting.

NOTES ON DISCS

HANDLING DISCS

Do not touch the playback side of the disc. Hold the disc by the edges so that fingerprints do not get on the surface. Never stick paper or tape on the disc.

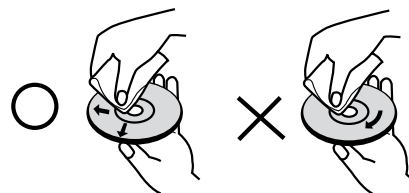


STORING DISCS

After playing, store the disc in its case. Do not expose the disc to direct sunlight or sources of heat and never leave it in a parked car exposed to direct sunlight.

CLEANING DISCS

Fingerprints and dust on the disc can cause poor picture quality and sound distortion. Before playing, clean the disc with a clean cloth. Wipe the disc from the center out.



Do not use strong solvents such as alcohol, benzene, thinner, commercially available cleaners, or anti-static spray intended for older vinyl records.

AMPLIFIER SECTION

Continuous output power into 6 Ω	20 W
IHF dynamic power, 6 Ω	30 W
Tone controls : Treble	±10 dB
Bass	±10 dB
Damping factor	> 30
Input impedance (R & C)	47 kΩ
Input sensitivity	300 mV
Voltage gain	33 dB
Frequency response	± 3 dB (ref. 10 Hz to 20 kHz)
Signal/noise ratio, A-weighted	90 dB
Total harmonic distortion at rated power	0.3 %
Headphone output impedance	32 Ω

TUNER SECTION

FM BAND

Tuning range	87.50 MHz to 108.00 MHz
Usable Sensitivity	20dBu (98 MHz, SN 30dB)
Signal/Noise Ratio (60 dBμ IHF-WTD Mono)	65 dB
(60 dBμ IHF-WTD Stereo)	60 dB
Frequency response	- 3dB (ref. 20 Hz – 12 kHz)
Channel separation (60 dBμ) : 30 Hz	30 dB
1 kHz	30 dB
10 kHz	30 dB
Capture ratio (40 dBμ)	3 dB
AM suppression	40 dB
Image rejection (119.4 MHz)	75 dB
I.F. rejection (10.7 MHz)	75 dB
Pilot suppression (60 dBμ)	40 dB
Total harmonic distortion : Mono	1.0 %
Stereo	1.0 %
Autosearch	60 dB
RDS decode sensitivity	1 %

AM BAND

Tuning range	522 kHz to 1629 kHz
Usable sensitivity	73 dB
Signal/Noise ratio	32 dB
Total harmonic distortion	3 %
IF rejection (450 kHz)	40 dB
Image rejection (F+2xIF)	30 dB
Selectivity	30 dB
Frequency response	- 6 dB (ref. 100 Hz - 1.85 kHz)

REFERENCE

SPECIFICATIONS

DVD/CD SECTION

SYSTEM

Signal system	PAL/NTSC/AUTO
Laser	Two Wavelength laser diode
CD	Wavelength 790nm
DVD	Wavelength 650nm
Frequency response : CD	± 3 dB (ref. 10 Hz to 20 kHz)
DVD	± 3 dB (ref. 10 Hz to 20 kHz)
Signal/noise ratio (audio) : CD	95 dB
DVD	95 dB
Signal/noise ratio (video)	65 dB
Dynamic range (audio)	75 dB
Total Harmonic Distortion	0.007%

OUTPUT

Video out	1Vp-p/75Ω
Component (Y signal)	1Vp-p/75Ω
Component (Cb/Cr signal)	0.7Vp-p/75Ω
SCART (RGB signal)	0.7Vp-p/75Ω
SCART (CVBS signal)	1Vp-p/75Ω
Digital out (optical)	-15 dBm ~ -21 dBm
Audio output level	300 mV
Subwoofer output level	210 mV

DIMENSION AND WEIGHT

Unit dimensions (W x H x D)	218 x 119 x 316 mm
Net weight	2.9 kg
Shipping weight	4.4 kg

Specifications are subject to change without notice. For updated documentation and features, please log onto www.NADelectronics.com for the latest information about C 717.

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