ONKYO

Contents

CD/MD TUNER AMPLIFIER

FR-N3X

Instruction Manual

Thank you for purchasing the Onkyo CD/MD TUNER AMPLIFIER. Please read this manual thoroughly before making connections and turning on the power. Following the instructions in this manual will enable you to obtain optimum performance and listening pleasure from your new CD/MD TUNER AMPLIFIER. Please retain this manual for future reference.





MDLP

Before Using

Connecting

Preparations

Basic Operation

Advanced Operation

Additional Operation

WARNING:

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

CAUTION:

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



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.



Important Safeguards

- 1. **Read Instructions** Read all safety and operating instructions before operating the appliance.
- 2. **Retain Instructions** Retain the safety and operating instructions for future reference.
- 3. **Heed Warnings** Heed all warnings on the appliance and in the operating instructions.
- 4. Follow Instructions Follow all operating and usage instructions.
- Cleaning Unplug the appliance from the wall outlet before cleaning. The appliance should be cleaned only as recommended by the manufacturer.
- Attachments Attachments not recommended by the manufacturer may create hazards. Use only recommended attachments.
- Water and Moisture Do not use the appliance 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.
- Accessories Do not place the appliance on an unstable cart, stand, tripod, bracket, or table. The appliance may fall, causing serious injury to a child or adult, and serious damage to the appliance. Use only with a cart, stand, tripod, bracket, or table recommended by the manufacturer, or sold with the appliance. Any mounting of the appliance should follow the manufacturer's instructions, and should use a mounting accessory recommended by the manufacturer.
- Move appliance and cart combinations with care. Quick stops, excessive force, and uneven surfaces may cause the appliance and cart combination to overturn.



- 10. Ventilation Slots and openings in the $^{\mbox{\tiny S312}}$
- cabinet are provided for ventilation and to ensure reliable operation of the appliance and to protect it from overheating. Do not block or cover these openings by placing the appliance on a bed, sofa, rug, or other similar surface. Do not place the appliance in a built-in installation such as a bookcase or rack unless proper ventilation is provided. There should be free space of at least 20 cm (8 in.) and an opening behind the appliance.
- 11. Power Sources The appliance 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 appliance dealer or local power company.

- 12. **Grounding or Polarization** The appliance 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 fails 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. Pay particular attention to cords at plugs, convenience receptacles, and the point at which they exit from the appliance.
- 14. Outdoor Antenna Grounding If an outside antenna or cable system is connected to the appliance, 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. See Figure 1.
- 15. Lightning For added protection for the appliance 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 appliance 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 avoid touching such power lines or circuits as contact with them can 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 the appliance through openings as they may touch dangerous voltage points or short-out parts, resulting in a fire or electric shock. Never spill liquid of any kind on the appliance.
- Servicing Do not attempt to service the appliance 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 the appliance form 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 appliance
 - C. If the appliance has been exposed to rain or water
 - D. If the appliance does not operate normally as per 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 appliance to its normal operation.
 - E. If the appliance has been dropped or damaged in any way, and
 - F. When the appliance 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 that 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 the appliance, ask the service technician to perform safety checks to determine that the appliance is in proper operating condition.

Precautions

1. Recording Copyright

Recording of copyrighted material for other than personal use is illegal without permission of the copyright holder.

2. AC Fuse

The fuse is located inside the chassis and is not user-serviceable. If power does not come on, contact your Onkyo authorized service station.

3. Power

WARNING

BEFORE PLUGGING IN THE UNIT FOR THE FIRST TIME, READ THE FOLLOWING SECTION CAREFULLY.

The voltage of the available power supply differs according to country or region. Be sure that the power supply voltage of the area where this unit will be used meets the required voltage (e.g., AC 230 V, 50 Hz or AC 120 V, 60 Hz) written on the rear panel.

Setting the STANDBY button to standby mode does not shut off the power completely.

4. Do not touch this unit with wet hands.

Do not handle this unit or power cord when your hands are wet or damp. If water or any other liquid enters the case, take this unit to an authorized service center for inspection.

5. Location of this unit

Place this unit in a well-ventilated location.

Take special care to provide plenty of ventilation on all sides of this unit especially when it is placed in an audio rack. If ventilation is blocked, this unit may overheat and malfunction.

Do not expose this unit to direct sunlight or heating units as this unit's internal temperature may rise and shorten the life of the pickup.

This unit contains a semiconductor laser system and is classified as a "CLASS 1 LASER PRODUCT." To use this model properly, read this Instruction Manual carefully. In case of any trouble, please contact the store where you purchased the unit. To prevent being exposed to the laser beam, do not try to open the enclosure.

DANGER:

INVISIBLE LASER RADIATION WHEN OPEN AND INTERLOCK FAILED OR DEFEATED. AVOID DIRECT EXPOSURE TO BEAM.

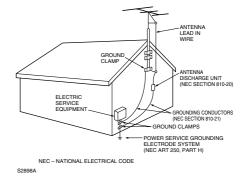
CAUTION:

THIS PRODUCT UTILIZES A LASER. USE OF CONTROLS OR ADJUSTMENTS OR PERFORMANCE OF PROCEDURES OTHER THAN THOSE SPECIFIED HEREIN MAY RESULT IN HAZARDOUS RADIATION EXPOSURE.

- 23. **Wall or Ceiling Mounting** The appliance should be mounted to a wall or ceiling only as recommended by the manufacturer.
- 24. **Heat** The appliance should be situated away from heat sources such as radiators, heat registers, stoves, or other appliances (including amplifiers) that produce heat.
- 25. Liquid Hazards The appliance shall not be exposed to dripping or splashing and no objects filled with liquids, such as vases shall be placed on the appliance.

FIGURE 1:

EXAMPLE OF ANTENNA GROUNDING AS PER NATIONAL ELECTRICAL CODE, ANSI/NFPA 70



Avoid damp and dusty places and places directly affected by vibrations from the speakers. In particular, avoid placing the unit on or above one of the speakers.

Be sure this unit is placed in a horizontal position. Never place it on its side or on a slanted surface as it may malfunction.

Do not place this unit near tuners or TV sets. If placed next to a TV or tuner, it may cause reception interference resulting in some noise in the TV or tuner output.

6. Care

From time to time you should wipe the front and rear panels and the cabinet with a soft cloth. For heavier dirt, unplug the power cord from the AC outlet, dampen a soft cloth in a weak solution of mild detergent and water, wring it out dry, and wipe off the dirt. Following this, dry the unit immediately with a clean cloth.

Do not use rough material, thinners, alcohol or other chemical solvents or cloths since these could damage the finish or remove the panel lettering.

7. Points to remember

If this unit is brought from a cold environment to a warm one or is in a cold room that is quickly heated, condensation may form on the pickup, preventing proper operation. In this case, remove the disc and leave the power ON for about one hour to remove the condensation.

When transporting this unit, be careful not to bump it.

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This label on the left hand panel states that:

- 1. This unit is a CLASS 1 LASER PRODUCT and employs a laser inside the cabinet.
- 2. To prevent the laser from being exposed, do not remove the cover. Refer servicing to qualified personnel.

Main features

- DLA Link (Digital Rec Level Adjustment) function automatically adjusts the recording level of CD-to-MD dubbing.
- Adjustable digital recording volume level.
- Supports MDLP long hour recording mode (2X/4X).
- Double-speed CD-to-MD dubbing function
- Sampling rate converter equipped
- Title function facilitates naming an MD.
- Optical digital OUT connectors equipped.
- WRAT (Wide Range Amplifier Technology) could lead to a broad-band, next-generation media.
- Various external IN connectors (CD-R and LINE).
- A tuner enables you to program up to 30 preset stations into memory.

Supplied accessories

Check that the following accessories are supplied with this unit.

The number of accessories is indicated in brackets.

- Remote controller – RC-497S [1]
- Batteries (size AA/ R6/UM3) [2]



- Indoor AM antenna (aerial) [1]
- Indoor FM antenna (aerial) [1]



adapter [1]

- 75/300 ohm antenna
 Instruct
 - Instruction Manual (this manual) [1]

Memory Preservation

This unit does not require memory preservation batteries. A built-in memory power back-up system preserves the contents of the memory during power failures and even when the unit is unplugged. The unit must be connected to a power source to charge the back-up system. The memory preservation period after the unit has been unplugged varies depending on climate and placement of the unit. On the average, memory contents are protected over a period of a few weeks after the last time the unit has been unplugged. This period is shorter when the unit is exposed to a humid climate.

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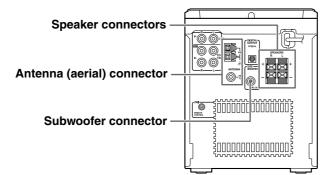
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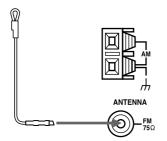
Antenna (aerial) and speakers

Do not connect the AC power cord (main lead) when you connect the antenna or speakers. You will connect the AC power cord on page 11.



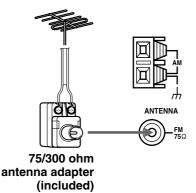
Connecting the supplied indoor FM antenna (aerial)

While listening to the radio on page 24, move the antenna (aerial) in various directions until you receive the clearest signal. Then secure the antenna (aerial) with push pins in the position that creates the least distortion.



To connect the outdoor FM antenna (aerial)

If signals received via the indoor FM antenna (aerial) are not clear enough, connect an outdoor FM antenna (aerial).



• To avoid the risk of lightning and electrical shock, be sure to electrically ground the unit. Follow item 14 in the "Important Safeguards" on page 3 when you install the outdoor antenna.

WARNING

Do not install the antenna (aerial) near power lines to minimize the risk of electrical shock.

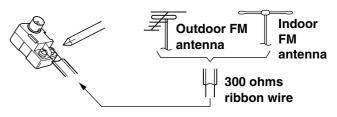
Note

Keep the antenna (aerial) away from noise sources, such as neon signs and busy roads.

Connecting the FM antenna cable to the 75/300 ohm antenna adapter

Connecting the 300 ohm ribbon wire

Loosen the screws and wrap the wire around the screws. Then tighten the screws with a screwdriver.

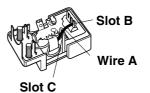


Connecting the coaxial cable

1. With your fingernail or a small screwdriver, press the stoppers outward and remove the cover.



2. Remove transformer wire A from slot B and insert it into slot C.

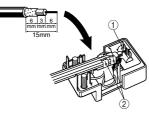


3. Prepare the coaxial cable as shown in the diagram.

Connect the 75/300 ohm antenna adapter to the coaxial cable.

1 Insert the end of the cable.

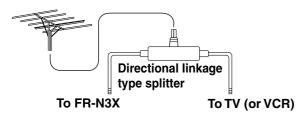
② Use pliers to clamp it in place.



4. Re-install the cover.

Directional linkage

Do not use the same antenna for both FM and TV (or VCR) reception since these signals may interfere with each other. If you must use a common FM/TV (or VCR) antenna, use a directional linkage type splitter.



Connecting the AM antenna

Assembling the AM loop antenna

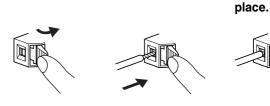
Assemble the loop antenna as shown in the following illustration.



Insert into the hole.

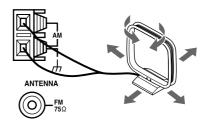
Connecting the AM antenna cable

1. Press down 2. Insert the 3. Release the the lever. wire into lever to lock the hole. the wire in



Connecting the AM loop antenna

The AM loop antenna is for indoor use only. Set it in the direction and position in which you receive the clearest sound. Locate it as far as possible away from this unit, televisions, speaker cables, and power cords.

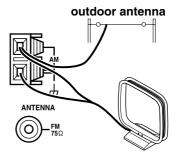


Connecting an AM outdoor antenna

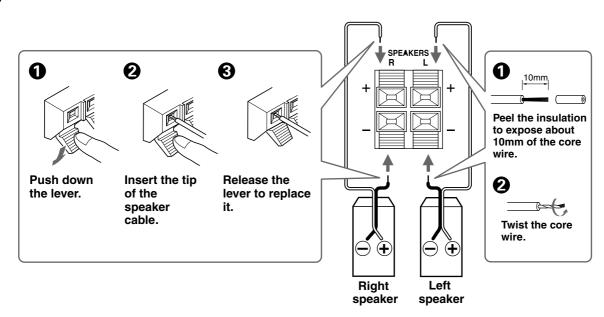
When reception is not satisfactory with the supplied AM loop antenna alone, an outdoor antenna is recommended.

The outdoor antenna will be more effective if it is stretched horizontally above or outside a window.

- Do not remove the AM loop antenna.
- To avoid the risk of lightning and electrical shock, grounding is necessary. Follow item 14 of the "Important Safeguards" on page 3 when you install the outdoor antenna.



(Continued on the next page)

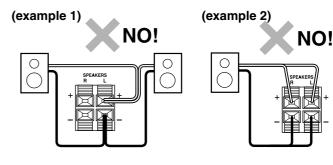


Notes

- Connecting the left and right speakers reversely or with incorrect polarities can cause unnatural or distorted sound.
- The load impedance of each speaker must be between 4 and 16 ohms. Connecting speakers with less than 4 ohms impedance could damage the amplifier.
- To prevent damage to circuits, never short-circuit the positive (+) and negative (-) speaker wires.

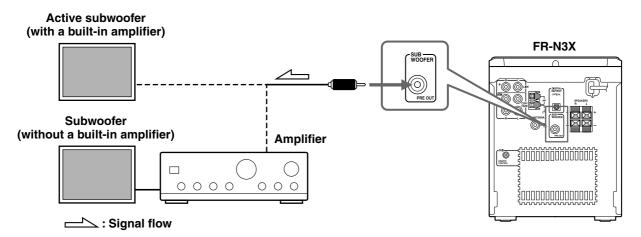


Do not connect the speaker cord to the L and R connectors at the same time (example 1). Do not connect more than two speaker connectors to the same speaker (example 2).



Connecting a subwoofer

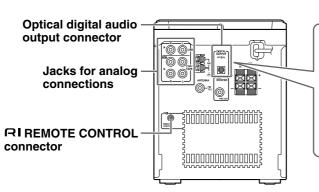
The FR-N3X has a SUBWOOFER PRE OUT jack. Connect an active subwoofer (a subwoofer that contains an amplifier), or connect an amplifier to the FR-N3X, then connect a non-active subwoofer to the amplifier.



Audio/video equipment

Connect the white plugs of the audio cables to the L jacks and connect the red plugs of the audio cables to the R jacks.

Tip The source names appearing in the display can be customized for the connected component (see page 65).



Protective cap for the optical digital audio connector Remove the protective cap before you use the OPTICAL DIGITAL OUTPUTconnector. Please retain it for futureuse. If you do not use the optical digital audio connector, make sure to replace the cap.

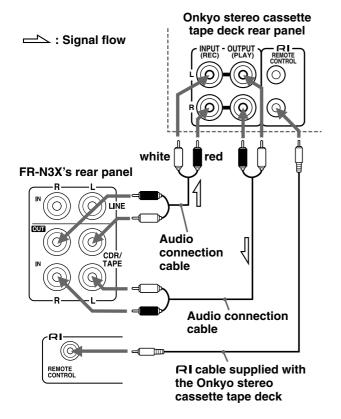
Notes

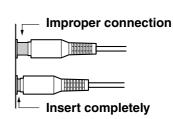
 ${\ensuremath{\boxtimes}}$ Do not place objects on the unit as they may interfere with proper ventilation.

- Follow the rules for digital recording (see page 67).
- Audio plugs must be connected securely. Incomplete connection will not reproduce sound.
- Do not bundle the audio connection cables with the speaker cords. This may impair the sound quality.
- If the TV screen and the unit interfere with each other, put more distance between the speakers and the TV set.

Connecting an Onkyo stereo cassette tape deck

The following diagram illustrates how to connect an optional Onkyo stereo cassette tape deck. Connect the FR-N3X CDR/TAPE OUT (REC) jacks to the tape deck's INPUT (REC) jacks, and the FR-N3X CDR/TAPE INPUT (PLAY) jacks to the tape deck's OUTPUT (PLAY) jacks.



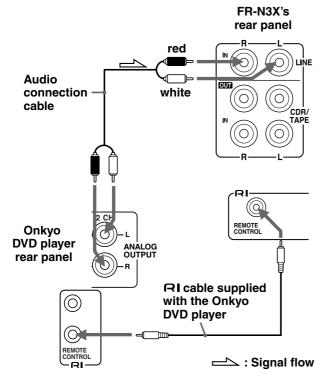


What does connecting an Onkyo stereo cassette tape deck using an RI cable enable you to do?

- To operate the **RI** system, you need to change the source name in the display to TAPE (see page 65). (The default source name in the display is CD-R.)
- You can operate an Onkyo stereo cassette tape deck using the supplied remote controller. (You also need to connect the audio pin cable.)
- When you start playing a tape, the unit input selector will automatically switch to the stereo cassette tape deck (TAPE).
- Synchro recording operations (see page 33).

Connecting a Onkyo DVD player

The following diagram illustrates how to connect an optional Onkyo DVD player. Connect the FR-N3X LINE IN jacks to the DVD player's analog audio output jacks.



What does connecting an Onkyo DVD player using an RI cable enable you to do?

- To operate the **RI** system, you need to change the source name in the display to DVD (see page 65). (The default source name in the display is LINE.)
- You can operate an Onkyo DVD player using the supplied remote controller.
- When you start playing a DVD player, the unit input selector will automatically switch to the DVD player (DVD).

About the LINE jacks

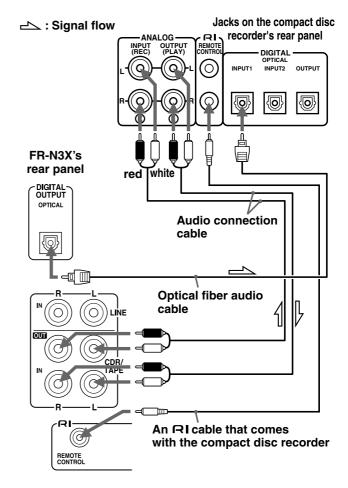
In addition to the previous examples, a laser disc player, satellite broadcast tuner, or VCR may also be connected. Connect the analog audio output jacks to the unit's LINE using the audio connection cable.

Connecting an Onkyo compact disc recorder

The following diagram illustrates how to connect an optional Onkyo compact disc recorder. Connect the FR-N3X CDR/ TAPE OUT (REC) jacks to the disc recorder's INPUT (REC) jacks. Connect the FR-N3X CDR/TAPE IN (PLAY) jacks to the disc recorder's OUTPUT (PLAY) jacks.

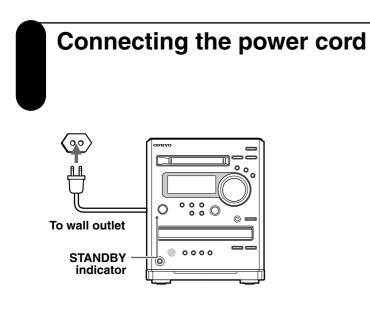
About the OPTICAL DIGITAL OUT connector

You can connect a CD or DAT recorder that has an optical digital audio input to the FR-N3X for digital recording. Use a standard optical fiber audio cable for connection. Digital recording is allowed only for the first generation. (See "Guide to the serial copy management system" on page 67.).



The RI jack connection enables you to use the following functions:

- To operate the **RI** system, the source name in the display should be CD-R. (Since the default source name in the display is CD-R, you do not need to change the setting. See page 65 for further information.)
- You can control a connected Onkyo compact disc recorder from the FR-N3X's remote controller.
- When the connected Onkyo compact disc recorder plays back, the Input Selector on the FR-N3X is automatically switched to CD-R.



When the power cord is connected to the AC outlet, the FR-N3X enters stand-by mode. The STANDBY indicator lights up.

Precautions for handling Compact Discs (CDs)

Important notes on handling CDs

Carefully lift the disc from the disc case, making sure to hold the disc by its edges or the hole in the middle.



You can use a soft, dry cloth to wipe dust and fingerprints off the surface of CDs.



Do not use volatile agents on discs, such as thinner or benzene. Also, do not use conventional record cleaner or antistatic agents.

- Do not place a CD in direct sunlight or in locations subject to high humidity or low temperature.
- Do not store a CD in the unit's disc tray for a long period of time.

Playable discs

This unit can play the following discs.

	Disc mark	Contents	Disc size
Audio	Сомраст		12 cm
CDs		Audio	8 cm (CD single)

You cannot play back discs other than those listed above.

Do not use discs that are not audio discs (e.g., CD-ROMs for use with personal computers), as these could damage the speakers and amplifier.



Avoid using heart-shaped or octagonal discs. Playing irregularly-shaped discs may damage the internal mechanism of the unit.

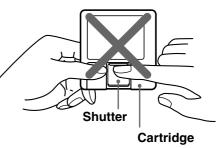
Do not use discs that have residue from adhesive tape, rental discs that have peeling labels, or discs that have custom labels or stickers. Otherwise, you may not be able to eject the discs or the unit may become inoperative.

Precautions for handling MiniDiscs (MDs)

The MD is housed in a cartridge, so you can handle it without worrying about dust and fingerprints. Even so, a dirty or warped cartridge may malfunction. Always remember the following precautions so you can enjoy high-quality sound for a long time.

Do not touch the disc in the cartridge directly with your fingers.

Do not open the shutter by hand. Doing so may damage the disc.



Storage location

Avoid storing MDs in a place subject to direct sunlight, high temperature, or high humidity.

When the unit is not to be used for an extended period

Remove the MD from the unit to prevent dust from entering the MD cartridge. When the MD is in the unit, the shutter of the MD cartridge remains open.

Regular care

Wipe off dust and dirt that has accumulated on the cartridge surface with a dry cloth.

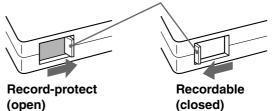
Removing a partially inserted MD

If the "self-lock function" is activated and the MD cannot be removed, push the MD further into the MD disc slot and then press MD \triangleq (eject) to remove the MD.

Protecting recordings from accidental erasure

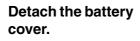
You can protect your MDs from accidental recording by sliding the record-protect tab on the MDs to open the record-protect window. To make the MDs recordable again, return the record-protect tab.

Record-protect tab



igleting Inserting the batteries







Insert the two R6 (size AA) batteries.

Be sure to match the + and – ends of the batteries with the diagram inside the battery compartment.

3

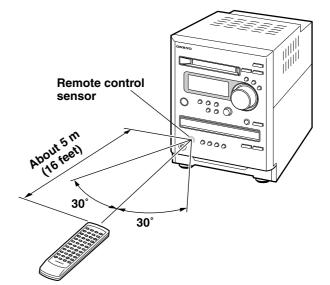
Attach the battery cover.

Notes

- Do not mix new batteries with old batteries or different kinds of batteries.
- To avoid corrosion, remove the batteries if the remote controller is not to be used for a long period of time.
- Remove dead batteries immediately to avoid damage from corrosion. If the remote controller does not operate smoothly, replace both batteries at the same time.
- The life of the batteries supplied is about six months but will vary depending on usage.

Using the remote controller

Point the remote controller toward the remote control sensor.

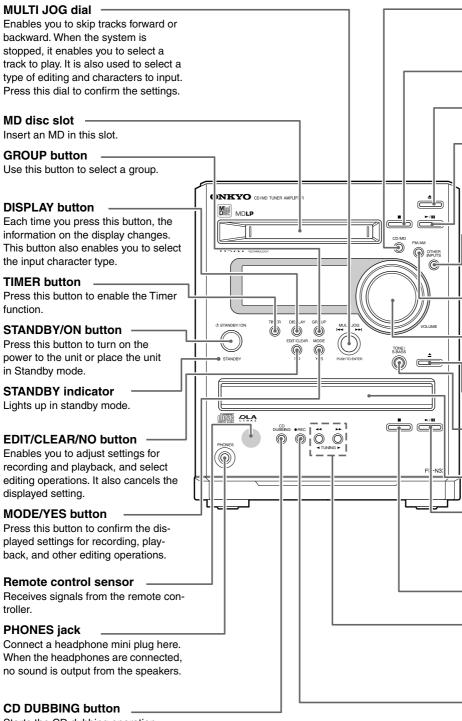


Notes

- Place the unit away from strong light such as direct sunlight or inverted fluorescent light, which can prevent proper operation of the remote controller.
- Using another remote controller of the same type in the same room or using the unit near equipment that uses infrared rays may cause operational interference.
- Do not put any object, such as a book, on the remote controller. The buttons of the remote controller may accidentally be pressed and drain the batteries.
- Make sure the audio rack doors do not have colored glass. Placing the unit behind such doors may prevent proper remote controller operation.
- If there is an obstacle between the remote controller and the remote control sensor, the remote controller will not operate.

Part names and functions

Front panel



CD/MD button

Each time you press this button, the input source switches between CD and MD.

MD button

Stops playback or recording.

MD **A** button

Ejects a loaded MD.

MD ►/II button

Starts playback or recording. When you press this button during playback, the unit is placed in Pause mode. Press the button again to resume playback.

OTHER INPUTS button

Each time you press this button, the input source switches between CD-R and LINE.

AM/FM button

Each time you press this button, the input source switches between AM and FM.

VOLUME control

Adjusts the volume level.

CD **A** button Ejects a loaded CD.

TONE/S.BASS button

Adjusts the tonal quality and the low bass range.

CD disc tray

Place a CD on the tray to load.

CD ►/II button

Starts playback. When you press this button during playback, the unit enters Pause mode. Press the button again to resume playback.

CD button

Stops playback.

</ > buttons

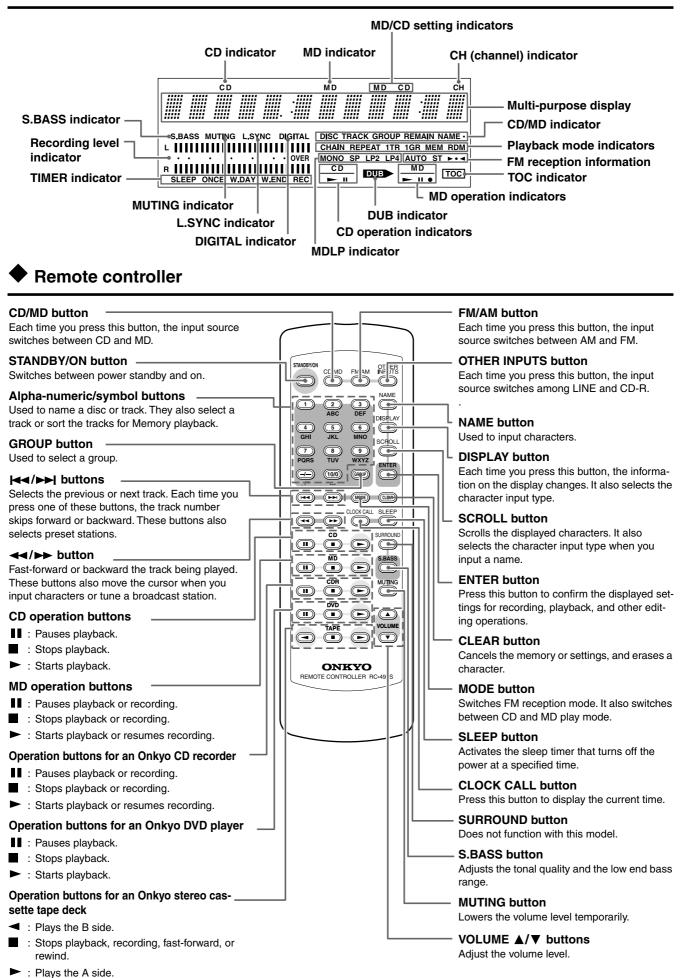
Fast-forward or backward the track being played. These buttons also move the cursor when you input characters, and tune a broadcast station.

MD REC button

Places the MD player into Record Standby mode.

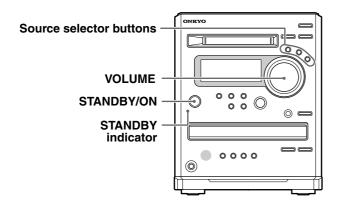
Starts the CD dubbing operation.

Display



Understanding preparatory and common operations

This section explains the following preparatory and common operations: turning the unit on and off, selecting a source, adjusting the volume, etc.



Turning the unit on and off

Press STANDBY/ON on the unit or on the remote controller.

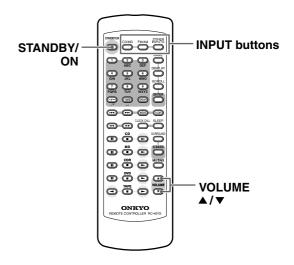
If you press the same button again, the unit will turn off and enter standby mode.

The FR-N3X has the following two power modes.

Standby mode:The display remains turned off
(see page 11).Power On mode:The FR-N3X enters Power On
mode when you press the
STANDBY/ON button on the unit
or remote controller while the unit
is in Standby mode. The FR-N3X
operates normally in this mode.

Tip!

When you start playing (or turn on the power to) an Onkyo CD recorder or cassette tape deck that is connected to the FR-N3X via an **RI** cable and audio pin cables, the power to the FR-N3X is automatically turned on. Also, if you turn on or off the power to the FR-N3X, the power to such a device is automatically turned on or off (standby).



igoplus Adjusting the volume

Operating with the unit

Turn VOLUME clockwise to increase the volume and counterclockwise to decrease the volume.

Using the remote controller

Press VOLUME $\blacktriangle/ \blacksquare$ on the remote controller.

Selecting a source

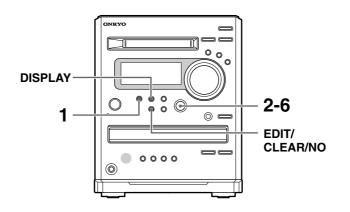
You can select CD, MD, FM, AM, or connected external audio/video equipment (LINE and CD-R) as the audio source.

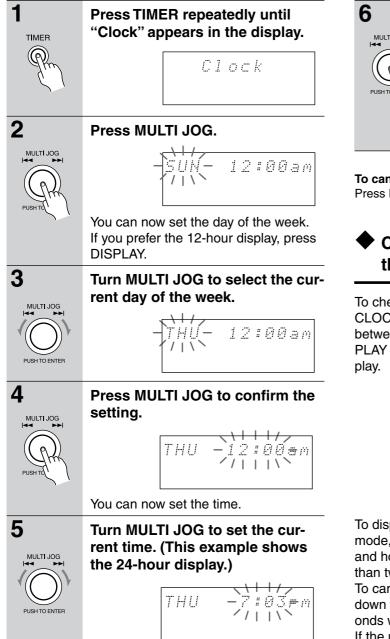
Operating with the unit and remote controller

Buttons	Usage
CD/MD	Press this button to toggle between CD and MD.
FM/AM	Press this button to toggle between FM and AM.
OTHER INPUTS	Press this button to select LINE or CD-R.

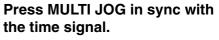
Setting the day of the week and the time

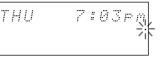
You can select either the 12-hour or 24-hour display. (This section explains how to set the time based on the 12-hour display.)









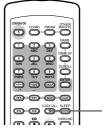


The clock starts operating and a dot indicating seconds starts to flash.

To cancel the clock setting Press EDIT/CLEAR/NO.

Checking the time and the day of the week

To check the time and the day of the week, press CLOCK CALL on the remote controller. To switch between the 12-hour and 24-hour displays, press DIS-PLAY while the current time is indicated on the display.



- CLOCK CALL

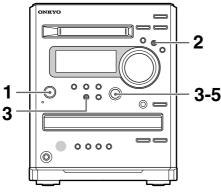
To display the current time while the unit is in Standby mode, first turn on the power to the unit, then press and hold down the STANDBY/ON button for more than two seconds.

To cancel the current time indication, press and hold down the STANDBY/ON button for more than two seconds while the power is on.

If the unit displays the current time during Standby mode, standby power consumption will increase.

Programming FM stations automatically — Auto Preset

Auto presets store the frequencies of radio stations into memory so you can select your favorite channels without tuning manually. Radio station signals can be automatically located and stored. This function does not apply to AM stations (see the next page).



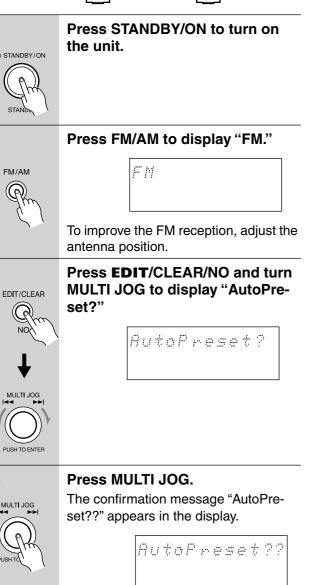


1

2

3

4



To stop auto presetting, press EDIT/ CLEAR/NO.

Before auto presetting

If any radio stations are preset before you start the auto preset procedure, they will be replaced with new presets.



Press MULTI JOG.

Auto presetting starts. It scans for the best signal quality radio stations starting from the lowest frequency and moving to the highest, then presets the selected radio stations to the channels sequentially, starting with 1.



You can preset up to 20 stations. The preset stations will be automatically sorted in frequency order.

Note

Auto presetting may store noise instead of a station with a clear signal to some preset channels, depending on your location. In such cases, erase the preset manually (see page 50).

If auto presetting is unsuccessful

Check the antenna (aerial) connection and position (see page 6).

If you have a power failure or disconnect the AC power cord (mains lead)

Memory will normally be preserved for three days after the power supply has stopped. If the data in memory has been erased, repeat auto presetting.

Customizing the preset channels

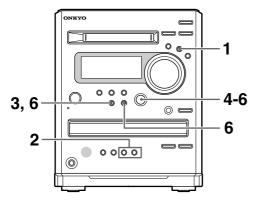
The following additional functions are available:

- Naming a preset channel (see page 52)
- Erasing a preset channel (see page 50)
- Copying the radio station in the selected channel to another (see page 51).

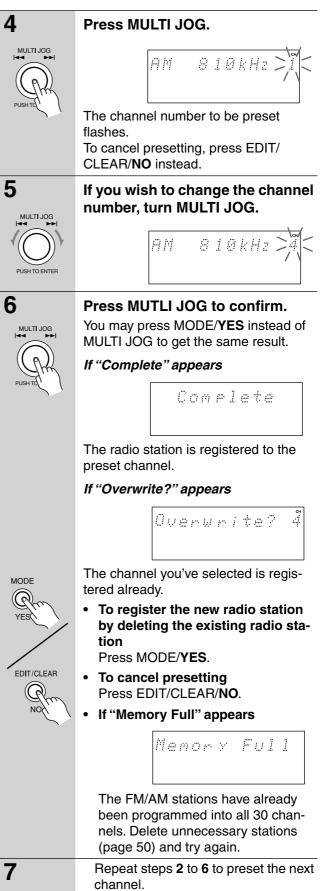
Programming AM/FM stations one by one — Preset Write

You can store the frequencies of AM stations one by one manually into the preset memory channels. (You can store FM stations manually or by using the auto preset function.)

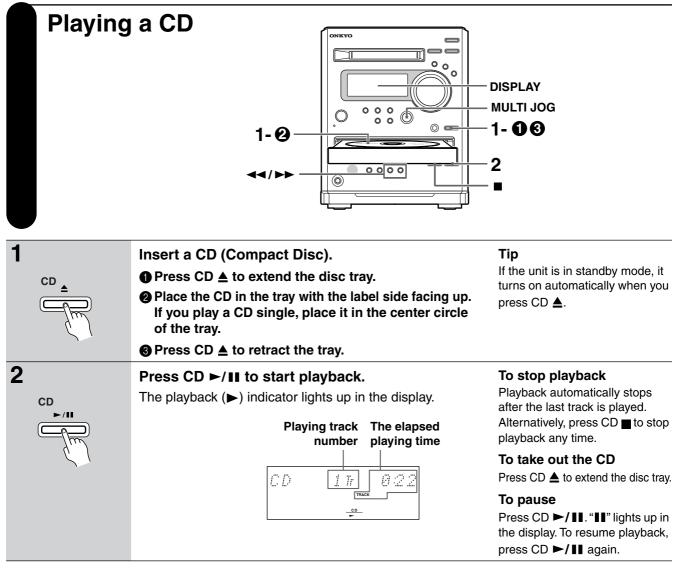
- You can preset up to 30 channels including both FM and AM stations. For example, if you have already stored FM stations to eight channels, you can use 22 channels to store preset AM stations.
- Programmed FM and AM stations are indicated separately. Therefore, one of the preset FM stations and one of the preset AM stations could use the same channel number.
- The Preset Write function enables you to store radio station frequencies to any channel number. For example, you could program three AM stations to channels 2, 5, and 9.



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Basic Operation



Selecting the track to play

 To locate the beginning of the playing track, turn MULTI JOG counterclockwise slightly.
 If you turn it further, you can select the previous tracks in reverse order.



MULTI JOG

To select the next track in order, turn MULTI JOG clockwise.

If you select the track while the CD is stopped, press MULTI JOG to start playback.

Note

It may take a while to start playing back CDs that contain many tracks.

 The CD track can also be selected and played back by pressing MULTI JOG while the CD is playing or stopped. Each press skips one track ahead.



Locating a particular point in a track

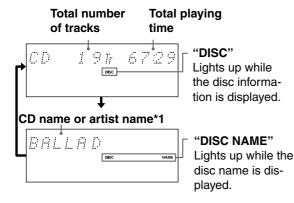
Press and hold ►► to fast forward, and ◄◄ to fast reverse during playback or pause until you locate the desired point.





Press DISPLAY on the unit repeatedly to change the display as follows:

While the CD is stopped

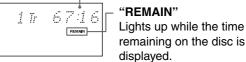


*1 If the CD contains CD text, the name appears in the display. If no CD text is included, the unit displays "No Name," then displays the disc information. If the disc name is long:

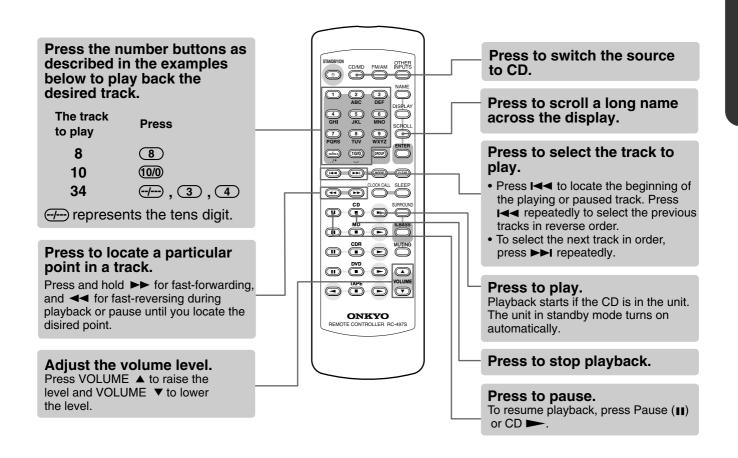
You can scroll long names across the display by pressing SCROLL on the remote controller (see below).

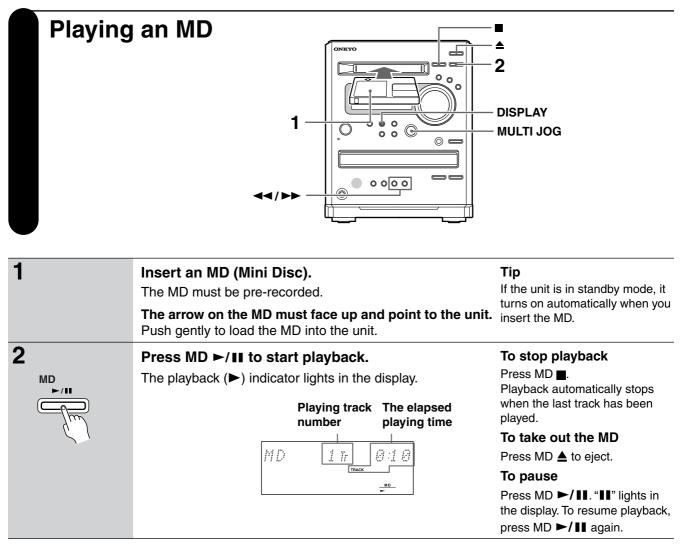
The elapsed time of the playing track "TRACK" CD0:13 1 Tr Lights up while the elapsed TRACK time of the playing track is displayed. The remaining time of the playing track **"TRACK REMAIN"** 438 CD1 Tr Lights up while the time TRACK REMAIN remaining on the playing track is displayed. t Playback track name (Only when the CD TEXT is included) "TRACK NAME" SONGLights up when the track TRAC name is displayed. The remaining time on the disc CD

During playback or pause



Using the remote controller





Selecting the track to play

 To locate the beginning of the playing track, turn MULTI JOG counterclockwise slightly.
 If you turn it further, you can select the previous tracks in reverse order.



To select the next track, turn MULTI JOG clockwise.

If you select a track while the MD is stopped, press MULTI JOG to start playback.

• The MD track can also be selected and played back by pressing MULTI JOG while the MD is playing or stopped. Each press skips one track ahead.



MULTI JOG

Locating a particular point in a track

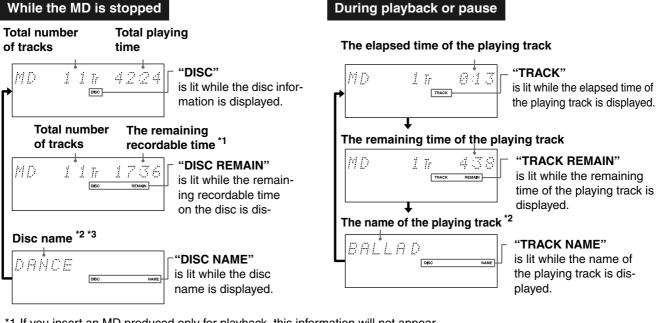
Press and hold ►► to fast forward, and ◄◀ to fast reverse during playback or pause until you locate the desired point.



Note

If you operate this function while the unit is paused, no sound will be reproduced. Check the elapsed time in the display to locate the point.

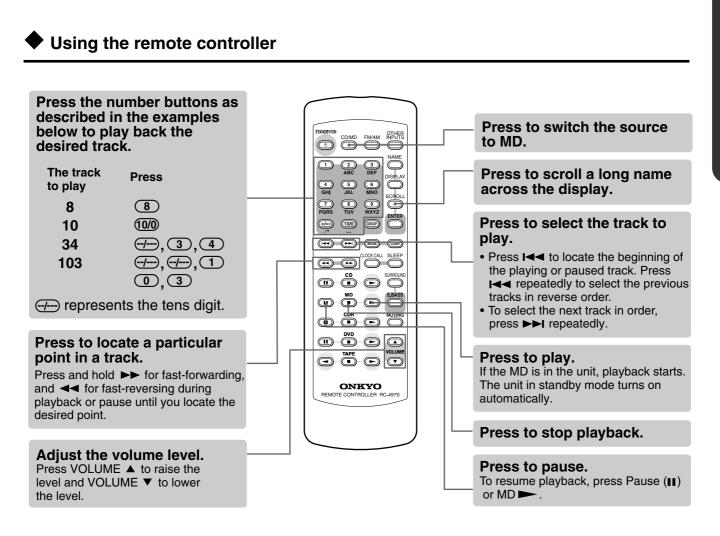
Press DISPLAY on the unit repeatedly to change the display as follows:

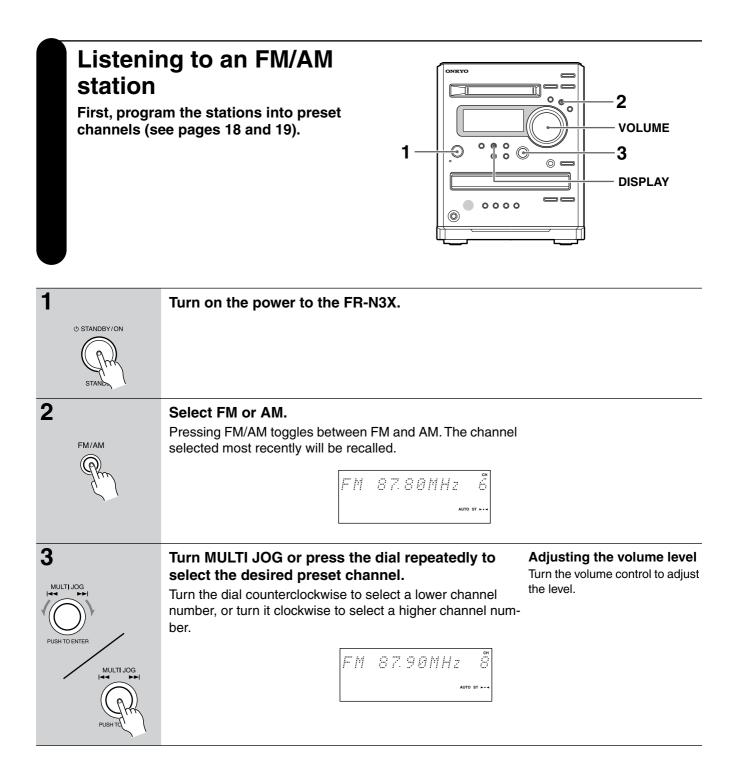


- *1 If you insert an MD produced only for playback, this information will not appear.
- *2 If the disc or tracks are not named, only the total number of tracks or the track number appears in the display. See "Naming an MD and its tracks, and preset channels" on page 52.
- *3 If the MD is not recorded, "MD BlankDisc" appears in the display.

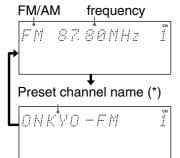
If the disc or song title is long:

You can scroll long names across the display by pressing SCROLL on the remote controller (see below).



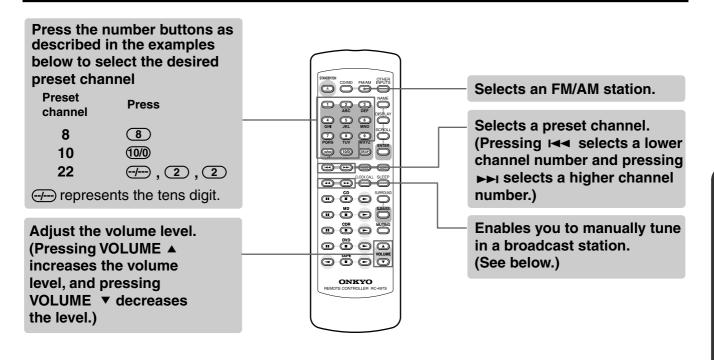


Pressing DISPLAY on the main unit repeatedly toggles between two types of information display.



If a given preset channel is not named, the unit displays "No Name," then indicates the frequency. See "Naming an MD, and its tracks, and preset channels" on page 52.

• Using the remote controller



iglet Manually tuning a broadcast station

You can also tune in radio stations manually.

① Turn on the power to the FR-N3X.

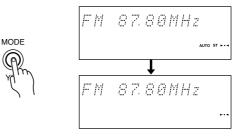
2 Select FM or AM.

③ Press TUNING ◄ or ► repeatedly while observing the display to tune in the desired frequency. Each press of the button changes the frequency by 50kHz for FM and 9kHz for AM. Pressing and holding down the button for more than one second will change the frequency continuously. While FM is selected, pressing and holding ◄ or ► down a while, then releasing it, will automatically raise (or lower) the frequency.

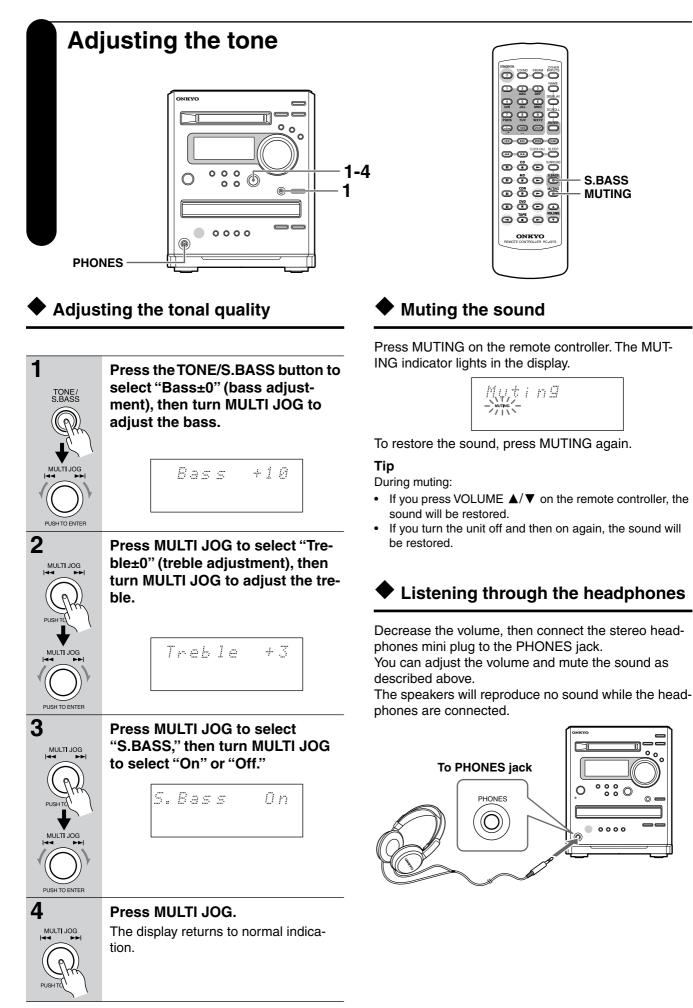
FM	87.80MHz

If FM reception is not good

When an FM stereo broadcast is being received, "ST" lights up on the display. However, if the signal is weak or too much noise interferes, it will not light up. In this case, press MODE to switch to monaural reception. ("AUTO" turns off.) This could reduce noise and intermittent cut-outs.



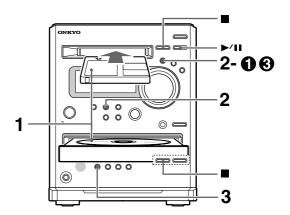
To return to AUTO tuning, press MODE again.

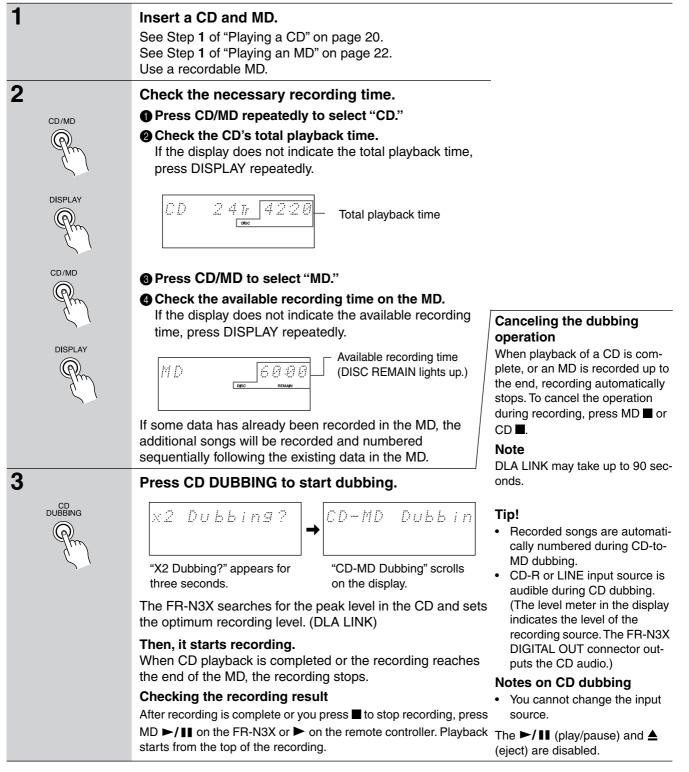


You can also use the S.BASS button on the remote controller to turn S.BASS on or off.

Dubbing CD to MD (CD dubbing)

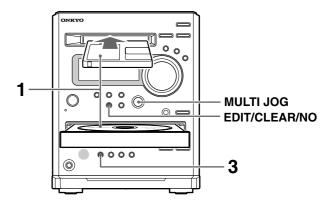
- This operation is one-touch recording that enables the DLA LINK.
- The tracks are automatically numbered.





Dubbing CD to MD at double speed

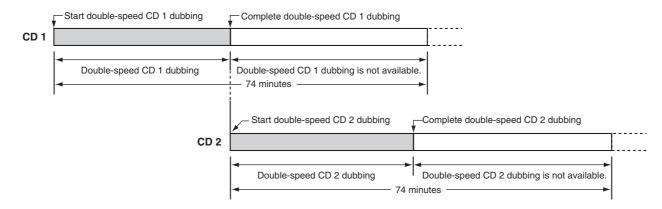
- You can copy a CD to an MD at double speed.
- The tracks are automatically numbered.



1	Insert a CD and an MD.	Tip!
See Step 1 of "Playing a CD" on page 20. See Step 1 of "Playing an MD" on page 22. Use a recordable MD.		 The quality of data recorded via double-speed CD dubbing may be adversely affected by a dirty disc. If skipping or noise
	Check the necessary recording time. Refer to Step 2 on page 27.	 You cannot dub CDs at doub speed when the CD is in
3 DUBBING	Press CD DUBBING twice to start double-speed CD dubbing. Press the button twice within a three-second interval. CD-MD × 2 Dubbing scrolls on the display. The FR-N3X searches for the peak level in the CD and sets the optimum recording level. (DLA LINK) Then, it starts recording. When playback of the CD is completed or the end of the MD is reached, the recording stops. Checking the recording result After recording is complete or you press ■ to stop recording, press MD ►/III on the FR-N3X or ► on the remote controller. Playback starts from the top of the recording.	 REPEAT play, MEMORY, or RANDOM play mode. Tip! DLA LINK may take up to 90 seconds. Recorded songs are automatically numbered during double-speed CD-to-MD dubbing. Switching the display during double-speed CD dubbing Refer to "Switching the display information during dubbing" on page 35. Notes on double-speed CD dubbing The ►/III (play/pause) and ▲ (eject) are disabled.

Limitations of double-speed CD dubbing

Due to limitations established for copyright protection, you cannot repeat double-speed CD dubbing using the same CD until the first 74 minutes of double-speed CD dubbing is completed. If you try to continue the operation, the FR-N3X displays the "Time Protect" message and the waiting time required until the same CD can be used for double-speed CD dubbing (e.g., "Wait 42min"). (However, you can continue double-speed CD dubbing with a different CD.) Also, you cannot perform double-speed CD dubbing continuously using twenty-one or more CDs within 74 minutes.



Recording from the top of a song you are listening to (specified track dubbing)

You cannot use double-speed CD dubbing for this operation.

Insert a CD and an MD and press the CD ►/II to start playback.

Be sure to insert a recordable MD with the recordprotect tab closed.

2 If you wish to record a song you are currently listening to, press CD DUBBING during playback.

Playback resumes from the top of the song and dubbing starts. When dubbing of the song is complete, the MD stops. The CD continues playing.

Dubbing a CD in a different playback mode to an MD

Insert a CD and an MD, select CD as the input source, then select a different playback mode.

- Be sure to insert a recordable MD with the record-protect tab closed.
- Set up MEMORY playback (see page 40), 1TR playback (see page 41), or REPEAT playback (see page 42). (Set up a playback mode and select a song(s). Do not play back the song(s).)

Press CD DUBBING.

CD-to-MD dubbing starts.

Notes

- Double-speed CD dubbing is disabled in MEMORY playback and REPEAT playback modes.
- If you have set up 1TR playback mode, you can dub only the first song on the CD even if you select multiple songs to be recorded.
- If you record only one song on the CD in REPEAT playback mode, the recorded song on the MD may not be numbered.

Copying CD text

- If a CD contains CD text, the CD's track names will be copied to the MD's tracks during CD dubbing.
- During CD dubbing to an MD that contains no recording data or title, the CD disc title and the artist's name will be also copied to the MD and used as the MD disc title.
- Many CD texts are protected by copyright. If a particular CD text is protected by copyright, "Text protect" appears on the display one second after you press the CD DUBBING button.

If "Text Copy?" appears:

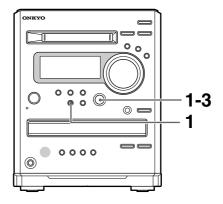
To start copying the CD and CD text to an MD, press the CD DUBBING button.

To start copying the CD but not copy CD text, do not press the CD DUBBING button.

Note:

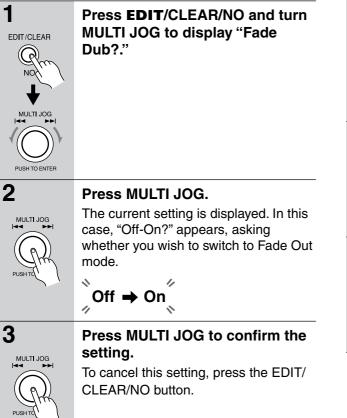
Due to the limitations of the MD formats, CD text may be converted into a blank space, depending on the character type.

Recording CD to MD (Various CD Dubbing) (continued)



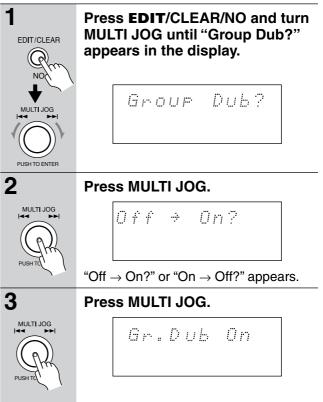
Switching to Fade Out mode (while the input source is MD and the system is stopped)

This mode fades out (gradually lowers the volume level of) the end of a track that cannot be recorded to its conclusion during CD dubbing, specified track dubbing, or double-speed CD dubbing.



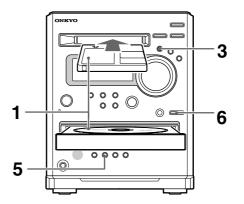
MD Group CD dubbing (while the source is MD and the recorder is stopped.)

You can record multiple tracks as a group.



Recording CD to MD (Synchro recording)

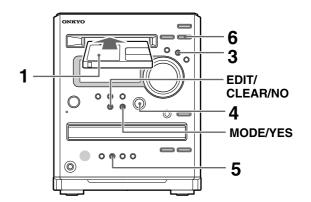
After you select songs, this function enables you to edit and record the songs.



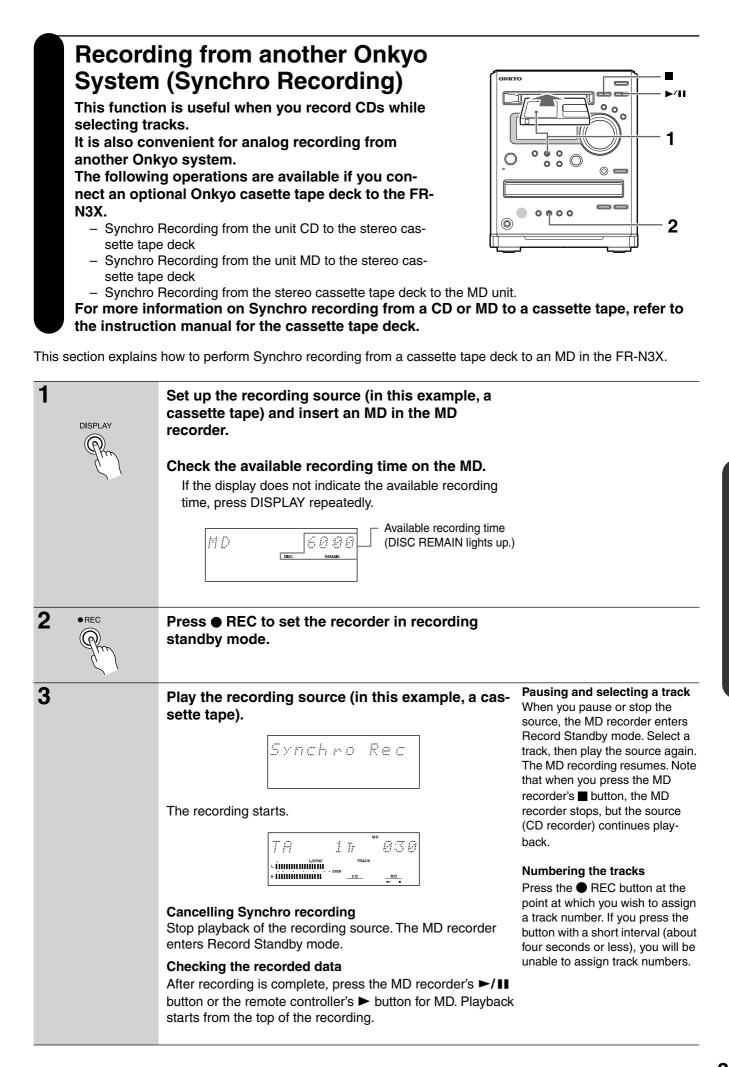
1	Insert a CD and an MD. See Step 1 of "Playing a CD" on page 20. See Step 1 of "Playing an MD" on page 22. Use a recordable MD.	Tip! If "MD Reading" appears on the MD information display, you can- not perform Synchro recording.
2	Check the necessary recording time. Refer to Step 2 on page 27.	
3 CD/MD	Press CD/MD repeatedly to display "CD."	
4	Select digital or analog recording. See "Selecting digital or analog recording from CD to MD" of page 37.	n
5 •REC	Press ● REC to set the FR-N3X in recording standby mode. Adjusting the recording level. See the next page.	Turning Level Sync on or off See "Numbering the songs — Level Sync" on page 39.
6 CD */II	Play the CD. Image: Incomparison of the constraint of	 Tip! During recording, you can check the elapsed time and remaining time on the MD using DISPLAY. Selecting a song after pausing the CD The MD also enters recording stand-by mode. Use ◄◄/▷► on the remote controller or MULTI JOG on the main unit to select a song on the CD, then press CD ►/III or the remote controller's ►. The MD resumes recording. Checking the recording result See page 27.

Recording an FM/AM broadcast program to an MD

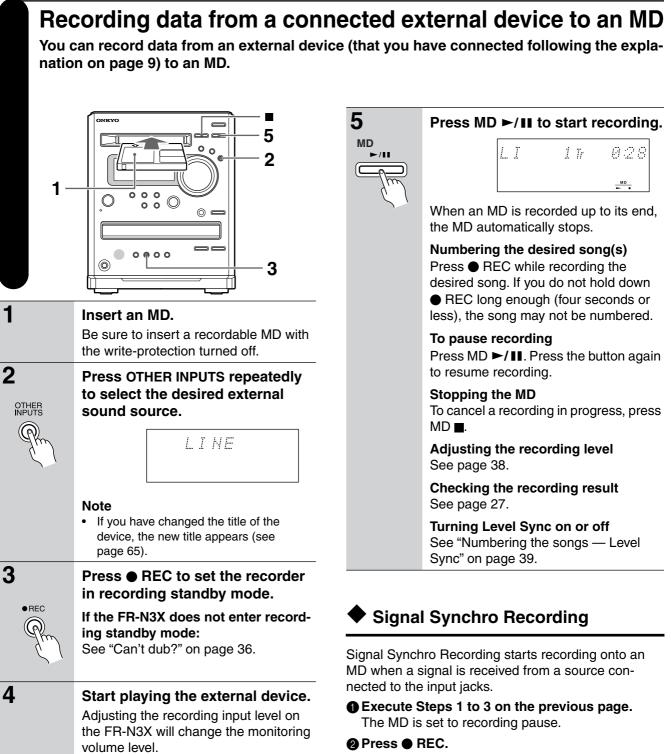
To record a very long program, switch the recording mode. (Refer to page 36.)



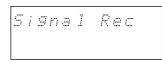
1		Insert an MD. Refer to Step 1 on page 22. Use a recordable MD.		
2		Check the available recording time on the MD. Refer to Step 2 on page 27.		
3	FM/AM	Select "FM" or "AM" for input.		
	Pm	<i>[≕ [·]</i>		
4		Turn MULTI JOG to select a preset channel.		
1	MULTI JOG	FM 87.80MH	сн 122	
5	•REC	Press ● REC to set the FR-N3X into record standby mode.	ling	Adjusting the recording level
	Pm		<u></u>	See page 38. Turning Level Sync on or off See "Numbering the songs —
		If the FR-N3X does not enter record stand-by mode See "Can't dub?" on page 36.		Level Sync" on page 39.
6		Press MD ►/III (play/pause) to start record	ling.	Tip!
ME) ►/II	Elapsed	d time	During recording, you can check the elapsed time and
		Recording input source		remaining time on the MD using the DISPLAY button (See page 35).
	When the MD is recorded up to its end, recording automati- cally stops. To stop a recording while in progress, press MD ■.			
		To pause recording		
		Press MD >/III. The III indicator lights up on the displa Press the button again to resume recording from the sto point. At this time, the track number increases by one.		
		Numbering the desired song(s)		
		Press ● REC during recording of the desired song. If yo hold down ● REC long enough (about four seconds or song may not be numbered.		



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"Signal Rec" appears in the display, then the MD switches to Signal Synchro Recording pause.



3 Start playing the selected source.

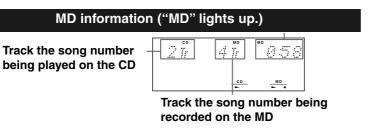
When a sound signal is received from the source, the MD will automatically start recording. (You do not need to press MD ►/III to start recording in Step 5 on this page.)

Settings for Recording

About the recording indicators

Switching the display information during recording

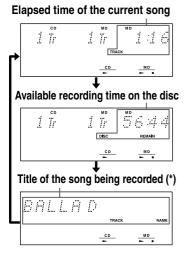
• Pressing CD/MD repeatedly toggles between the CD and MD information display.



CD information ("CD" lights up.)					
Track the song number being played on the CD					
		 ►	MD •		
	Track the recorded		nber being D		

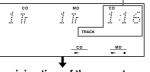
• The display changes as follows when you press DISPLAY:

Displayed MD information

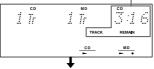


Displayed CD information

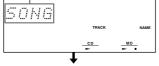
Elapsed time of the current song



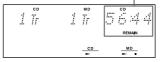
Remaining time of the current song



Playback track name (Only when the CD TEXT is included)

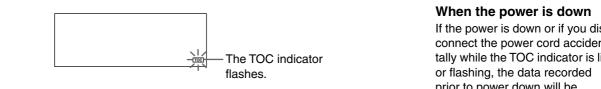


Remaining playback time on the CD



* Nothing appears if the song has no name. See "Naming an MD and its tracks, and preset channels" on page 52.

An MD after recording



TOC indicator

Information, such as track numbers, is written into the table of contents (TOC) on the MD before you eject the MD, before the recorder enters standby mode, or before recording is stopped.

Do not disconnect or move the power cord under the following situations. Otherwise, the data will not be written correctly. (Also, refer to the "When the power is down" section on the right.)

When the TOC indicator is lit

The information to be written into the TOC is currently stored in memory on the FR-N3X.

When the TOC indicator is flashing The information is being written to the MD.

Can't dub?

- "Cannot Rec" appears on the display. The current MD is for playback only. Use a recordable MD.
- "Protected" appears on the display. The MD is write-protected. See "Precautions for handling the MiniDisc (MD)" on page 12.
- "Disc Full" appears on the display. The MD has no space available for recording. Use a new MD.
- "CD Dub Fail" appears on the display. The MD mechanism is still operating. Wait a while, then press CD DUBBING. The CD is in RANDOM mode. Press MODE to cancel RANDOM mode.

Selecting a recording mode (while the input source is MD and the recorder is stopped)

Select Record mode before you start recording.

1	EDIT/CLEAR NOL	Press EDIT/CLEAR/NO.
2	MULTI JOG	Turn MULTI JOG to display "Rec Mode?".
3		Press MULTI JOG.

If the power is down or if you disconnect the power cord accidentally while the TOC indicator is lit prior to power down will be erased.

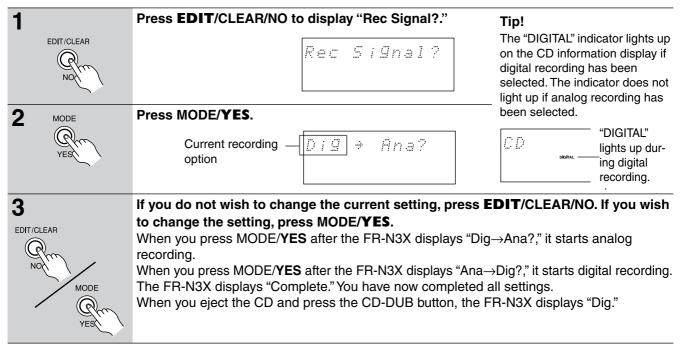
When "Retry Error" appears

Eject the MD, insert it again, then try recording again.

4	MULTI JOG	LTI JOG to select a recording mode from ction below in the following order. Normal stereo recording mode. You can record stereo data of a length specified on the disc. Normal stereo data is compressed to half its length. The available recording time is twice the length of "SP." Normal stereo data is compressed to a quarter of its length. The available recording time is four times the length of "SP." Monaural recording mode. The available record- ing time is twice the length of "SP."	Note If you have recorded a disc in LP2 or LP4 mode, you cannot play it on a player that does not support LP2 or LP4 mode. If you play such a disc on another MD player, "LP:" may appears in the display as a title.
5		ULTI JOG when the desired recording opears on the display.	

Selecting digital or analog recording from CD to MD (while the input source is CD and the recorder is stopped

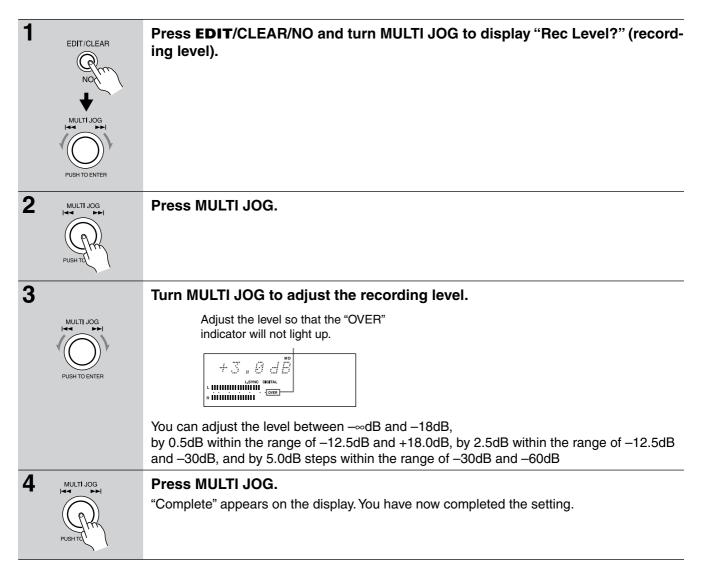
This operation is available for Synchro recording and Signal Synchro recording.



Adjusting the recording level

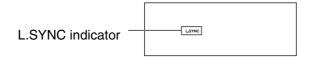
You can adjust the recording level for better recording quality.

This operation is available during Synchro recording and Signal recording. You cannot adjust the recording level during CD dubbing with DLA LINK or during double-speed dubbing. Play the recording source, and perform the steps below during in record standby mode. You can adjust the level for analog and digital recording.



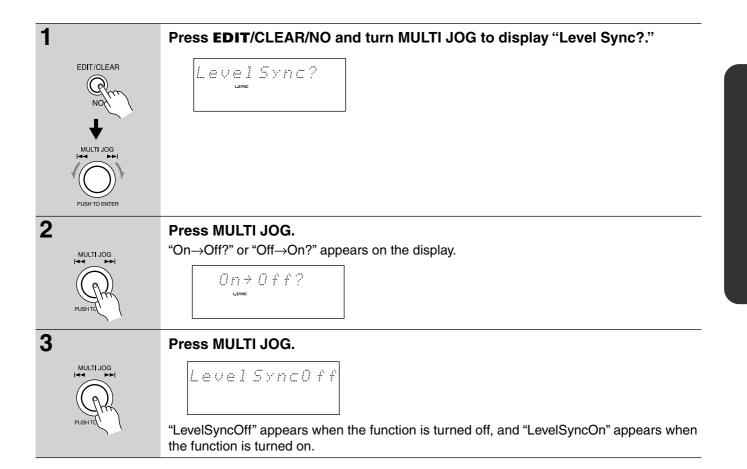
Numbering the songs — Level Sync

- The Level Sync function of the FR-N3X automatically numbers the song at the beginning of signal input. Turn on this function to automatically number songs during recording. (The songs may not be numbered if the gap (silence) between songs is too short.)
- During CD dubbing, specified track dubbing, and double-speed dubbing, the tracks are automatically numbered, regardless of the Level Sync function status.
- To number the songs, turn off the Level Sync function and follow Step 6 "Numbering the desired song(s)" on page 32.
- When the Level Sync function is on, the MD recorder automatically enters Record Standby mode if silence continues for 60 seconds.
- When the L.SYNC indicator is lit, the Level Sync function is turned on. (When you turn off the function, this indicator disappears.)



To turn the Level Sync function on or off, follow the steps *during recording or in recording standby mode*. (To cancel this operation, press EDIT/CLEAR/**NO**.

You can also turn the function on or off before inserting a disc.



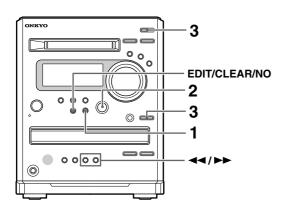
Various ways to play CDs and MDs

Five different playback modes are available in addition to normal playback. Insert a CD or MD before you begin operations (see pages 20 and 22).

MEMORY playback

You can select and store track numbers (up to 25) in a desired playback order.

By combining this function with the CD dubbing function, you can easily create an MD of your favorite recordings. (You cannot combine this function with the CD double-speed dubbing function.)



While the source is CD or MD, and the unit is in stop mode

1	Press MODE repeatedly until the MEM- ORY indicator lights in the display.		
MODE	мен		
	The MEMORY indicator lights.		
	Turn MULTI JOG to select the first track you want to play back, then press MULTI JOG.		
PUSH TO ENTER	The selected track is stored in memory. To select the next track to be played, repeat this step.		
	Track number to be stored in memoryThe total time of programmed tracks		
MULTI JOG			

47; 4530 мем

You can also use the number buttons on the remote controller to select a track.

To cancel a track number stored in memory:

Press EDIT/**CLEAR**/NO. Each press erases the last track number stored in memory.

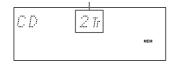
Note

If the total playing time of the programmed tracks exceeds the following time length, the FR-N3X does not display the total time. However, this does not affect MEMORY playback. CD: "--:--" appears when the total time meets or exceeds 99 minutes 59 seconds. MD: "---:--" appears when the total time meets or exceeds 511 minutes 59 seconds. You can program up to 25 tracks for a CD and MD. If you try to program more tracks, the unit displays "Memory Full."

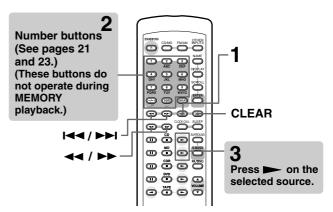


Press ►/II on the selected source to start MEMORY playback.

The playing track number



When the unit finishes playing the track number you stored last, playback stops. The track numbers stored in memory are retained.



To select a track number in memory:

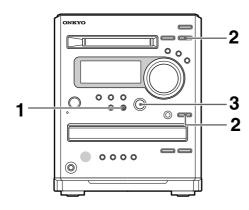
To check the track numbers in memory: Press ◀◀/▶▶ while the CD/MD is stopped.

To erase a track number from memory:

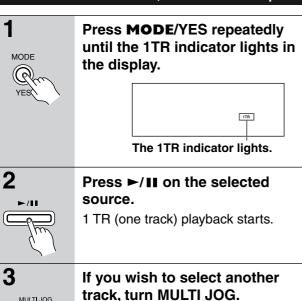
- While in MEMORY playback mode, and the CD/MD is stopped, press EDIT/CLEAR/NO or CLEAR on the remote controller. Each press erases the last track number stored in memory.
- If you change the playback mode, all data stored in MEMORY playback will be erased.
- When you eject the disc, all programmed data will be erased.

1 TR (one track) playback

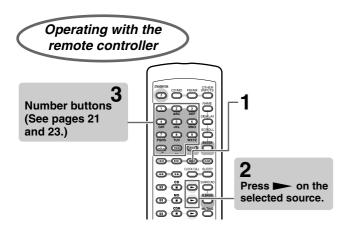
You can play back only a single track using this mode. In addition, using the CD dubbing function along with this mode enables you to create a single track CD easily.



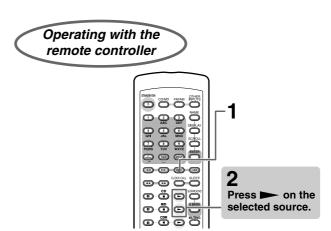
While the source is CD or MD, and the unit is in stop mode



You can select only one track while using the CD dubbing function.



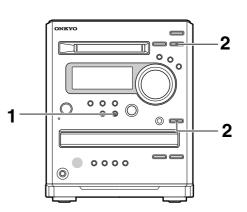
PUSH TO ENTER





RANDOM playback

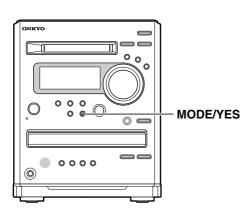
All tracks on the disc will be shuffled, then played back.



While the source is CD or MD, and the unit is in stop mode 1 Press MODE/YES repeatedly until the RDM indicator lights in MODE the display. $(\bigcirc$ RDM The RDM indicator lights. 2 Press ►/II on the selected source. RANDOM playback starts. The playing track МĎ 5 Tr 002

REPEAT/CHAIN REPEAT playback

- The REPEAT mode plays back a CD or MD repeatedly, and the CHAIN REPEAT mode plays back both the CD and MD in turn.
- You can combine either REPEAT or CHAIN REPEAT mode with MEMORY, 1 TR, or RANDOM mode. In CHAIN REPEAT mode, you can set the other combination mode separately for CD and MD.



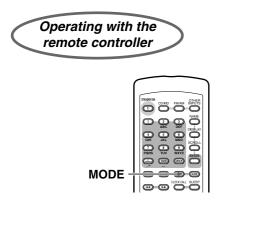


While a CD or MD is playing, press **MODE**/YES repeatedly until the REPEAT or CHAIN REPEAT indicator lights in the display.

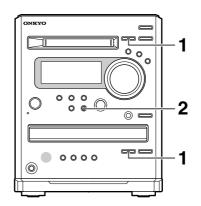
The REPEAT or CHAIN REPEAT playback mode is set.



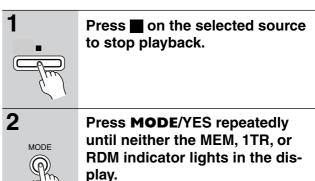
The REPEAT or CHAIN REPEAT indicator lights.



Cancelling the playback mode



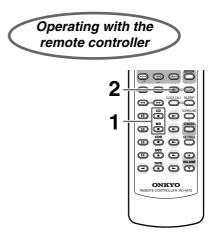
Cancelling 1TR, MEMORY, and RANDOM mode



Cancels REPEAT and CHAIN REPEAT mode



While a CD or MD is playing, press **MODE**/YES button repeatedly until neither the REPEAT or CHAIN REPEAT indicator lights in the display.

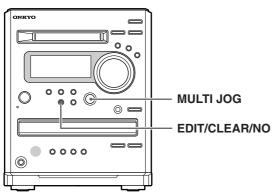


Using the MD Group Function

If 1TR, 1GR, MEM, or RDM is lit, you cannot use the edit functions. Place the unit in normal playback mode.

🔶 Group

The Group function enables you to assign tracks on an MD to groups. This function is convenient when you use MDLP for a disc that contains many tracks.



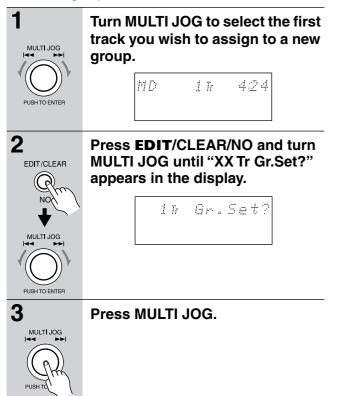
Notes

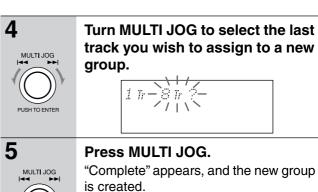
- You can group only consecutive tracks.
- You cannot assign a single track to multiple groups.
- If you try to play an MD that contains groups on a device that does not support Groups, the disc name will not be displayed correctly.

Do not edit an MD that contains groups on a device that does not support Groups.

Group Set (while the source is MD and the unit is stopped)

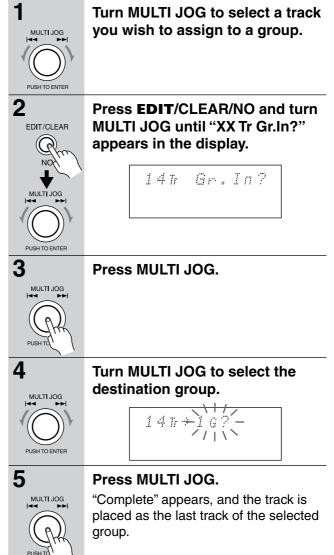
You can place tracks that do not belong to any group into a new group.





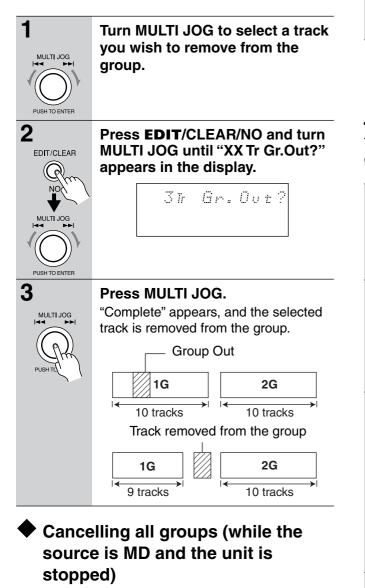
Group In (while the source is MD and the unit is stopped)

You can place tracks that do not belong to any group into an existing group.

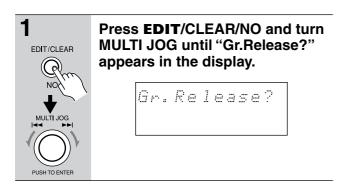


Group Out (while the source is MD and the unit is stopped)

This function enables you to remove a track from the group.



This function enables you to cancel all the groups on the disc.



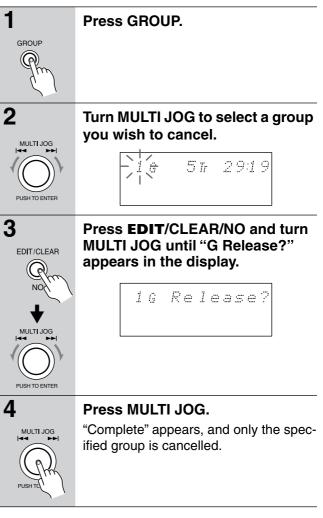


Press MULTI JOG.

"Complete" appears, and all the groups are cancelled.

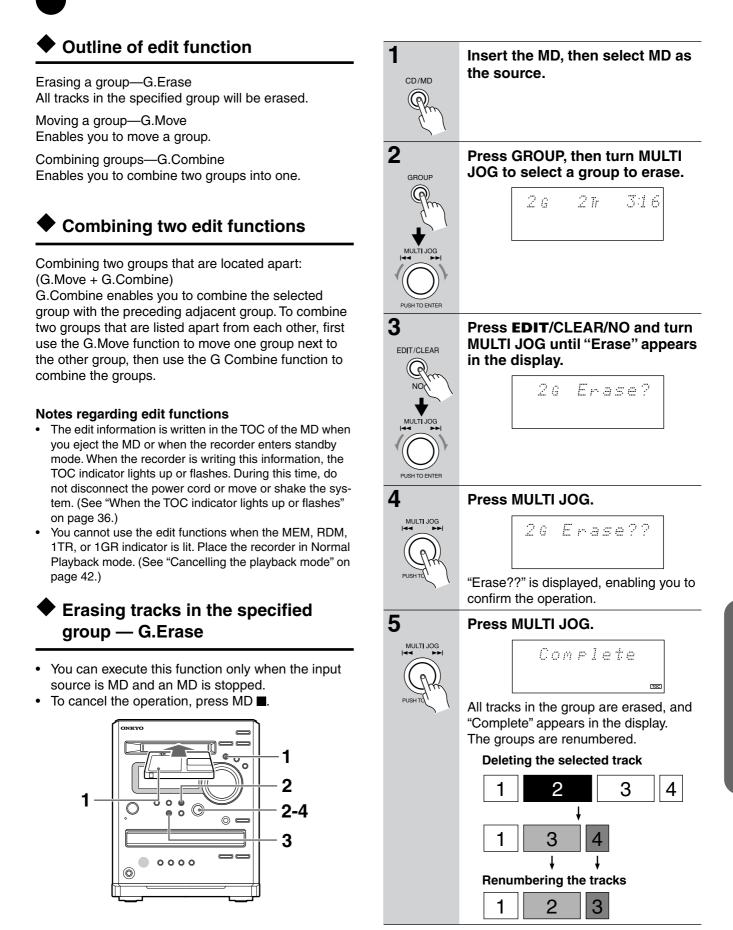
Cancelling the selected group (while the source is MD and the unit is stopped)

This function enables you to cancel only the selected group.



Editing Groups (Move, Combine and Erase)

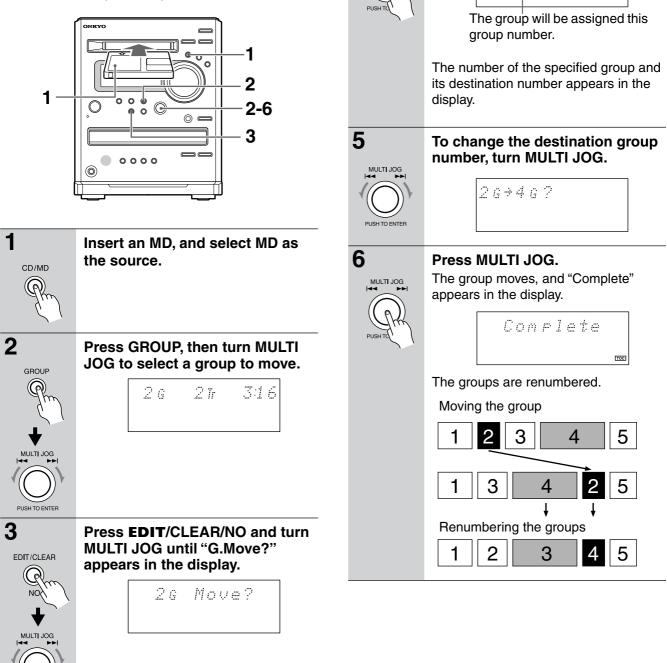
You can perform three editing functions: move a group to change the order, combine two groups into one, and erase tracks in a group.



(Continued on the next page)



- You can execute this function only when the input source is MD and an MD is stopped or paused.
- To cancel the operation, press MD ■.



4

MULTI JOG

Press MULTI JOG.

2*G + 1 G* ?

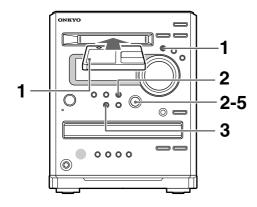
PUSH TO ENTER

• Combining groups — G.Combine

5

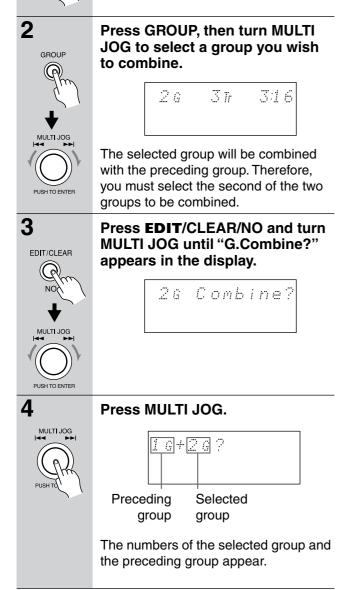
MULTI JO

- You can execute this function only when the input source is MD and an MD is playing or paused.
- The name of the lower-numbered group is assigned to the combined group.
- To cancel the operation, press MD ■.





Insert an MD, and select MD as the source.



G ➡I			Cor	n ele:	!:
	The gro plete" a The gro	opears	in the		d "Com-
	Comb	bining	the gro	oups	
	1	2	3	4	5
		ł	ł		
	1			4	5
		,	ļ	ţ	¥
	Renu	mberir	ng the	groups	
	1		2	3	4

Press MULTI JOG.

MD Group Functions (Playing MD Groups)

Before you use this function, you need to create a group on the disc (see page 43).

MD Group playback

1

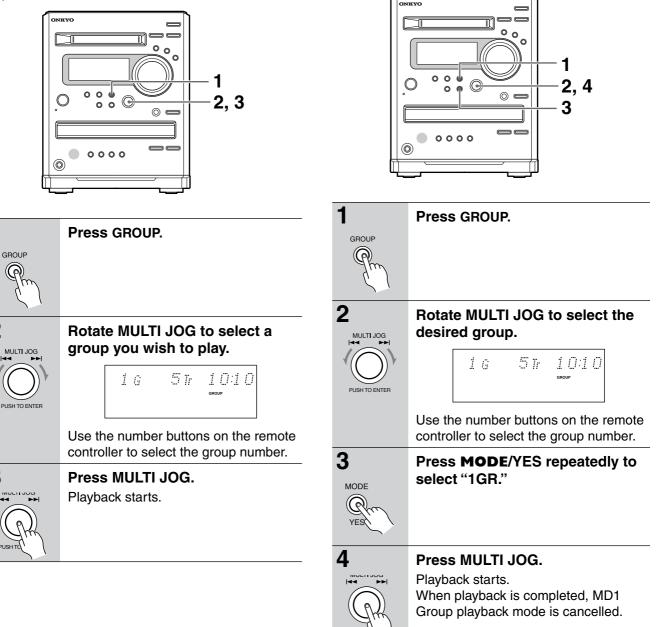
2

3

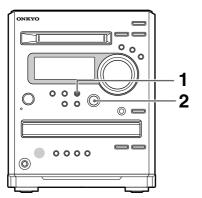
The selected group and all subsequent groups will be played.

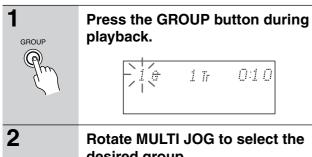
MD 1Group playback

Only the selected group will be played.



You can specify groups to skip during playback.





MULTI JOG PUSH TO ENTER

desired group.

Playback starts from the first track of the selected group.

Changing the FM/AM preset channels

Using the delete and copy functions, you can delete preset stations, copy a preset station to another channel, or change the channel number.

Tips for changing the preset channels

To change the channel number:

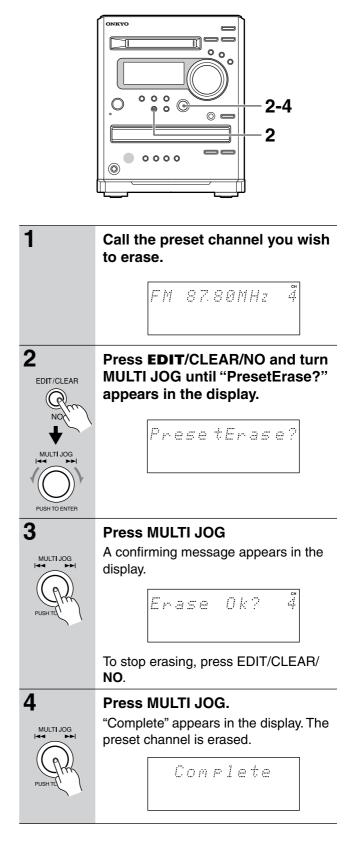
Use the copy and delete functions.

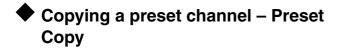
For example, if you wish to change channel 3 (which has an FM station programmed) to channel 8 (an empty channel):

• Copy the station in channel 3 to channel 8.

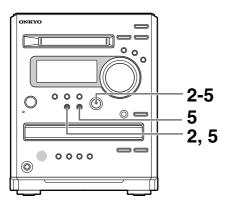
Delete the station in channel 3.

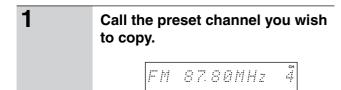
Erasing a preset channel – Preset Erase

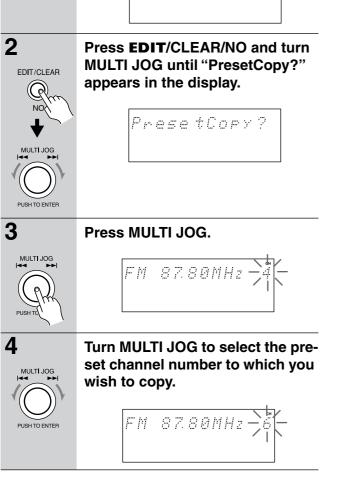




If you copy a preset channel to another channel, the name of the preset channel (see page 52) is also copied to the other channel.





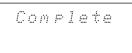




Press MULTI JOG to confirm.

You may press MODE/**YES** instead of MULTI JOG to achieve the same result.

If "Complete" appears:



The same radio station is copied to the preset channel.

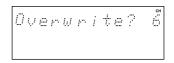
If "Overwrite?" appears:



EDIT/CLEAR

R

NC



The channel you wish to copy to is registered already.

- To register the new radio station by deleting the existing radio station: Press MODE/YES.
- To cancel copying: Press EDIT/CLEAR/NO.

Naming an MD and its tracks, and preset channels

Naming an MD disc or track

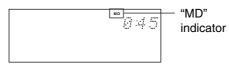
- You can enter up to 100 alphabetical characters per name.
- Use a recordable MD with the record-protect tab closed.
- () Insert the MD, then select MD as the source.
- To name the disc, proceed to Step (3).To name a track, select the track.
- Secure "Entering a name" as described in the right column.

Naming a group on an MD

- Insert the MD, then select MD as the source.
- Press the GROUP button, then turn MULTI JOG to select a group.
- Solow the steps described in the "Entering a name" section in the right column.

Notes

- If the MD is record-protected or a playback-only disc, you cannot name the disc. (See page 12.)
- Before naming the disc, check that no particular track is selected. If a track is selected, press MD ■.
- You can name a track during recording or playback. However, if recording or playback of the next track starts, the naming process may not be completed correctly.
- If the MEM, RDM, 1TR, or 1GR indicator is lit, you cannot name the disc.



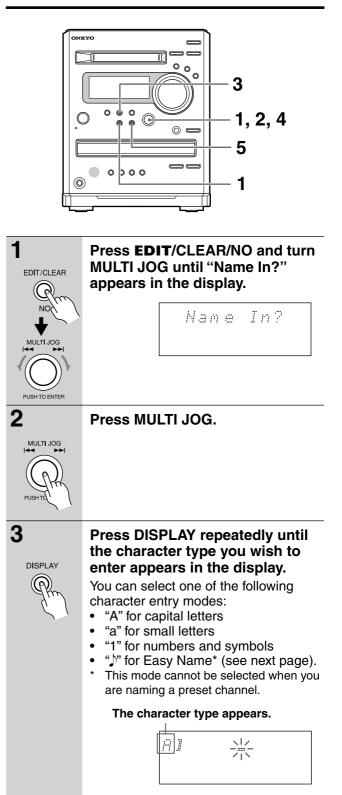
 Information such as names will be recorded to the TOC of the MD when you eject the MD, turn off the unit, or stop recording. Therefore, do not disconnect the AC power cord (mains lead) or vibrate the unit when the TOC indicator is lit or flashing. (See page 36.)

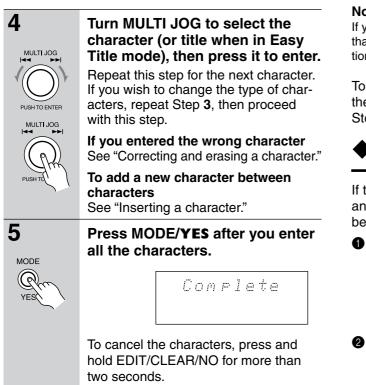
Naming a preset channel

After you select the preset channel to name, execute "Entering a name" as described in the right column.

You can enter up to eight characters per name.

Entering a name





What characters can be entered?

You can enter the following characters:

ABCDEFGHIJKLMNOPQRSTUVWXYZ abcdefghijklmnopqrstuvwxyz 0123456789 > <) (; : _ \$ % & + - * / = ? ! '"... _ (space) ⊭ (insert)

What's Easy Name?

The following music related words are prepared for easy entry:

BALLAD	LIVE	African	Anthology	Heavy
BLUES	POPS	American	Best of ⊔*	Hit Songs
CLASSIC	REGGAE	Asian	Collection	Omnibus
DANCE	ROCK	British	Favorite	Selection
FUSION	SOUL	Euro	Нарру	Special
JAZZ	TECHNO	German		Super
	VOCAL	Japanese		ட*

Correcting and erasing a character

If the unit is not in "Name In" mode, execute Steps 1 and 2 in "Entering a name," then follow the steps below.

● Press ◄ or ► repeatedly until the character you wish to correct or erase flashes.

When correcting

Enter the desired character (or title) following Steps 3 and 4 in "Entering a name" on the previous page.

When erasing Press EDIT/CLEAR/NO on the unit or CLEAR on the remote controller.

Note

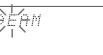
If you press and hold EDIT/CLEAR/NO on the unit for more than two seconds, the FR-N3X returs to the previous indication without erasing characters.

To continue entering characters, execute Step 3 on the previous page. To complete the operation, execute Step 5 on this page.

Inserting a character

If the unit is not in "Name In" mode, execute steps 1 and 2 in "Entering a name," then follow the steps below.

● Press ← or ► repeatedly until the character following the desired point of insertion flashes.



MULTI JOG.



③ Enter the desired character (or title) as per Steps 3 and 4 in "Entering a name."

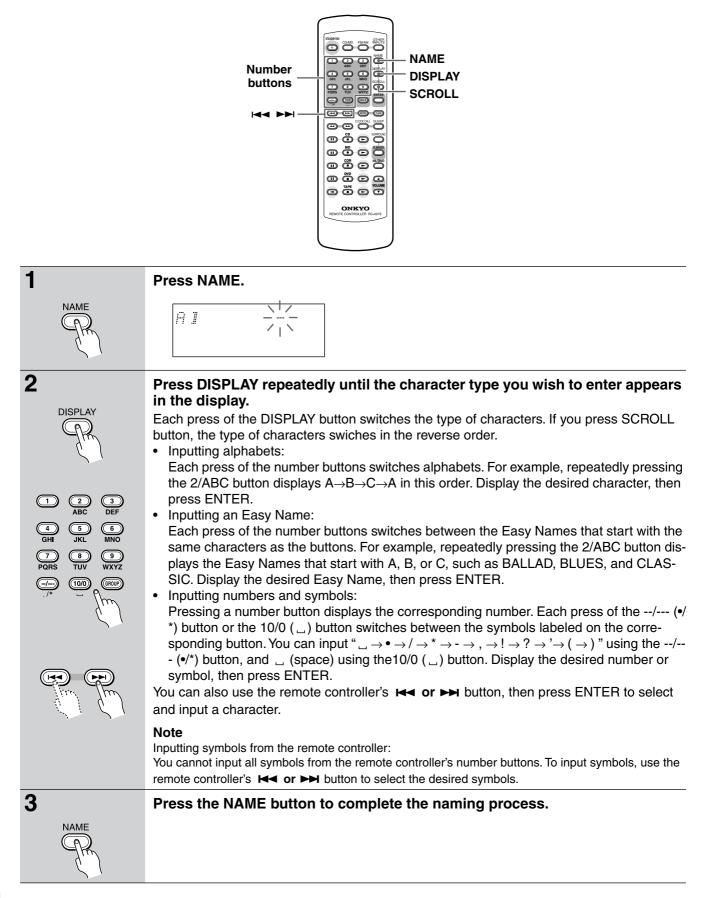
dream

To continue entering characters, follow Step 3 on the previous page. To complete the operation, follow Step 5 on this page.

Erasing the name assigned to a preset channel

- Select AM or FM as the source.
- Turn MULTI JOG to select the preset channel name you wish to erase.
- Press EDIT/CLEAR/NO and turn MULTI JOG until "Name Erase?" appears in the display.
- Press MODE/YES. "Complete" appears and the name is erased.

Inputting characters from the remote controller



Moving, dividing, combining, and erasing MD tracks

• Five basic functions

• All Erase

This function erases all the tracks and names to initialize the MD. ("Blank Disc" is displayed.)

• Erase

This function erases the selected track.

• Move

This function moves the selected track to the desired position.

• Divide

This function divides the selected track.

Combine

This function combines the selected track and the immediately preceding track.

Combining basic functions

Erasing part of a track – Divide and Erase

Divide the track at the end or beginning of the portion you wish to erase. If necessary, repeat this operation to separate an unwanted portion.

Then, erase the separated track.

Combining separately positioned tracks – Move and Combine

If the tracks you want to combine are in different locations, move the track to be merged to a position following the other track, then combine them.

Notes on combining tracks

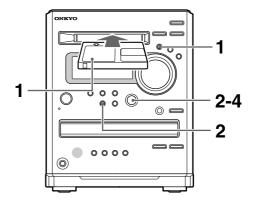
- You cannot combine a digital recording track and an analog recording track. (If you try, "Impossible" will appear on the display.)
- You cannot combine tracks recorded in different recording modes. You can combine only tracks recorded in the same recording mode. (For example, a track recorded in MONO mode cannot be combined with a track recorded in LP2 mode.)

Notes

- Information about the edited or erased contents is recorded to the TOC of the MD when you eject the MD, turn off the unit, or stop recording. Therefore, do not disconnect the AC power cord (mains lead) or vibrate the unit when the TOC indicator is lit or flashing (see page 36).
- If the MEM, RDM, 1TR, or 1GR indicator is lit in the display, you cannot edit or erase any tracks. In such cases, cancel the MEMORY, RANDOM, 1TR, and 1GR playback mode (see page 42) before starting the operation.
- If you edit an MD that has a group, the group information may be modified.



- You can execute this function only when the input source is MD and an MD is stopped.
- To cancel the operation, press MD ■.





Insert the MD, then select MD as the source.

Use a recordable MD with the recordprotect tab closed.

2

EDIT/CLEAR

Press **EDIT**/CLEAR/NO and turn MULTI JOG until "All Erase?" appears in the display.





Press MULTI JOG. The confirmation message "All

Erase??" appears in the display.





Press MULTI JOG to erase all tracks.

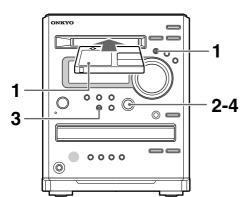
"Complete" appears in the display. All tracks on the MD have been erased.

Com plete

(Continued on the next page)

Erasing a selected track – Erase

- You can execute this function only when the input source is MD and an MD is stopped or paused.
- To cancel the operation, press MD ■.

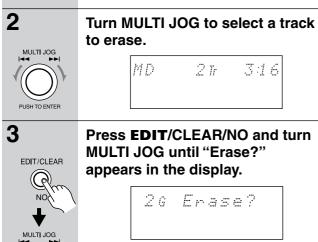




PUSH TO ENTER

Insert the MD, then select MD as the source.

Use a recordable MD with the record-protect tab closed.



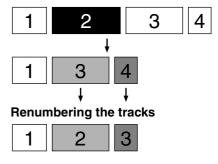


Press MULTI JOG to erase the track.

"Complete" appears in the display. The selected track is erased and all the other remaining tracks are renumbered from the top.

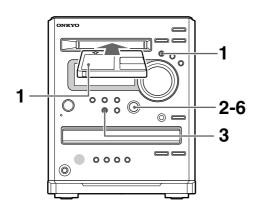


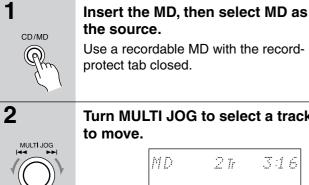
Deleting the selected track



Moving the selected track – Move

- You can execute this function only when the input . source is MD and an MD is stopped or paused.
- To cancel the operation, press MD ■.





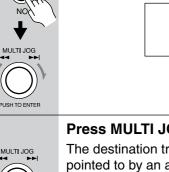
3

4

EDIT/CLEAR

protect tab closed. Turn MULTI JOG to select a track to move. МD 2π 316 Press EDIT/CLEAR/NO and turn **MULTI JOG until "Move?"**

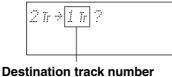
appears in the display.

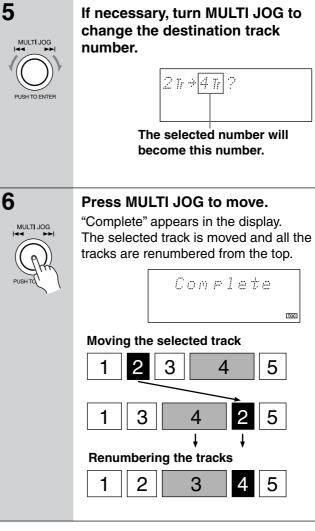


2ħ Move?

Press MULTI JOG.

The destination track number appears, pointed to by an arrow.

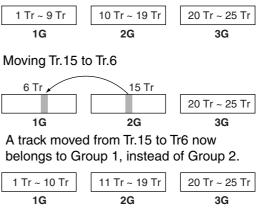




Moving a track to a different group

If you move a track, the track may end up belonging to a different group. See the example below.

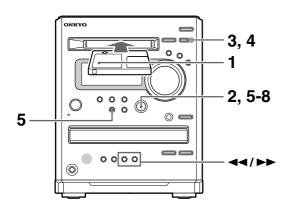


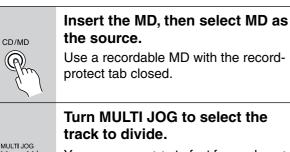


(Continued on the next page)

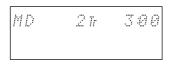
Dividing a selected track – Divide

- You can execute this function only when the input source is MD and an MD is playing or paused.
- If a selected track has a name (see page 52), the first part will retain the name after the track is divided.
- To cancel the operation, press MD ■.





You may press ►► to fast forward or ◄◄ to fast reverse on the remote controller to help locate the desired dividing-point.





4

PUSH TO ENTER

1

2

Playback starts.

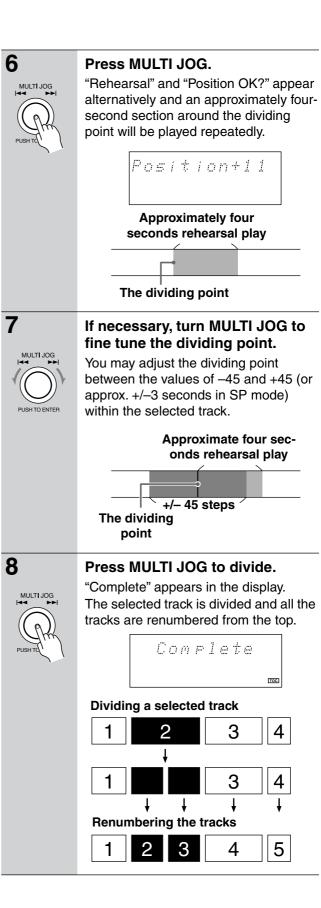
Press MD ►/II.

Press MD ►/II at the desired dividing. The MD pauses.



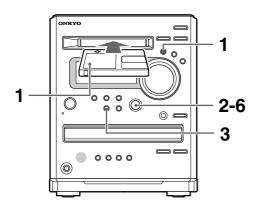
Press EDIT/CLEAR/NO and turn MULTI JOG until "Divide?" appears in the display.

21 Divide?



Combining selected tracks Combine

- You can execute this function only when the input source is MD and an MD is playing, paused, or stopped.
- When the preceding track has a name, this name will be used as the name of the combined track.
- To cancel the operation, press MD ■.





Insert the MD, then select MD as the source.

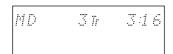
Use a recordable MD with the recordprotect tab closed.

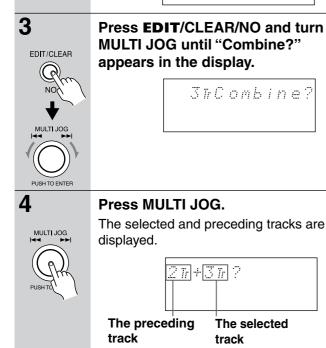


ISH TO ENTER

Turn MULTI JOG to select the track to be combined.

The selected track will be combined with the preceding track, so select the second of the two tracks.





5 Press MULTI JOG. "Rehearsal" and "Track OK?" appear MULTI JOG alternatively and an approximately eight-second section around the combining point is played repeatedly. Approximately eight seconds rehearsal play The preceding track The selected track The combining point 6 Press MULTI JOG to combine. "Complete" appears in the display. MULTI JOG The selected and preceding tracks are combined and all tracks are renumbered from the top. Complete TOC Combining the selected and preceding tracks 5 4 1 3 ŧ 1 4 5 **Renumbering the tracks** 4 2 3 1

If the selected track belongs to a group

If a selected track is combined with a preceding track that belongs to a different group, the selected track will be added to the group that contains the preceding track.

Using the timer functions

The FR-N3X provides five timer functions: Sleep, Once, Weekday, Weekend, and Rec timer.

Five basic functions

Sleep timer

This timer places the FR-N3X into standby mode automatically when the sleep timer counts down to zero. This function is convenient, for example, when you wish to fall asleep to music or a radio program.

Once, Weekday, and Weekend timer (For playback)

- When the programmed start time is reached, the power is automatically turned on and the specified input source starts playback.
- The unit enters standby mode when the specified end time is reached.
- The Once timer operates only one time.
- The Weekday timer operates every Monday to Friday (initial setting).
 You can customize the Weekday timer to match your schedule.
- The Weekend timer operates every Saturday and Sunday (initial setting).
 You can customize the Weekend timer to accommodate your weekend schedule.

Rec timer (For recording)

When the specified start time is reached on the specified day, the unit automatically powers on. The specified recorder starts recording data from the selected input.

The following two settings are available for the REC timer:

Once: Timer recording is made only once at the specified time.

Every: Timer recording is made once every day at the specified time. (You can also change the setting for the day(s) of the week.)

- The unit enters standby mode when the set end time is reached.
- The MD recorder enters record standby mode. If an Onkyo cassette tape deck is connected to the FR-N3X, change the input source indication from CD-R to TAPE. In this case, you can select "TAPE" or "MD&TAPE" as the recording device.

Tips

While Rec timer is operating, the sound is muted. To check the sound during timer recording, press MUT-ING or VOLUME \blacktriangle/\lor on the remote controller to turn off the muting function.

Using the Sleep timer

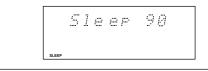
The Sleep timer can be set for 10 to 90 minutes, in intervals of 10 minutes.



Press SLEEP while you are listening to music or a radio program.

"Sleep 90" appears in the display, indicating the unit will turn off in 90 minutes.

Each press of the same button reduces the remaining time by 10 minutes.



Checking the remaining time

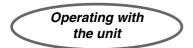
Press SLEEP while the Sleep timer is on. If you press SLEEP while the remaining time is displayed, the remaining time is reduced by 10 minutes.

Canceling Sleep timer

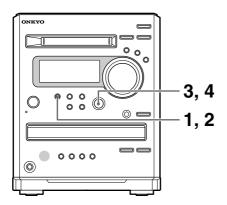
Press SLEEP repeatedly until "Sleep off" appears in the display.

Turning off the unit automatically after completing CD Dubbing

If you set the Sleep timer while you are carrying out CD Dubbing to CD, MD, Onkyo stereo cassette tape deck, or CD-R, the unit will turn off after completing CD dubbing regardless of the remaining time you set. This is convenient for starting CD Dubbing before going to bed or going out.



You can set the Sleep timer for 10 to 90 minutes, in intervals of 10 minutes. It is also possible to set the timer from 1 to 99 in one-minute increments is also possible using MULTI JOG.





Press TIMER while you are listening to music or a radio program. "Sleep 90" appears in the display win-

dow. The unit will turn off in 90 minutes.

Press TIMER if you wish to

reduce the remaining time.



Each press reduces the remaining time by ten minutes: $90 \rightarrow 80 \rightarrow ... \rightarrow 10 \rightarrow off.$

3

Turn MULTI JOG if you wish to set the remaining time in oneminute increments.

Turn MULTI JOG clockwise to increase the remaining time by up to 99 minutes, or counterclockwise to decrease the remaining time down to one minute.

SLEEP

4

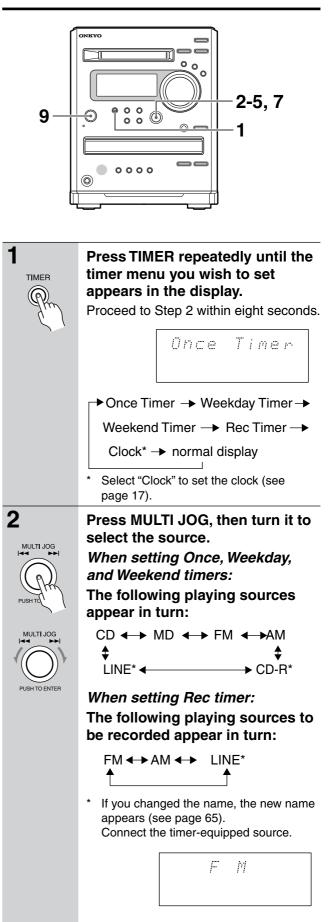
MULT JOG

Press MULTI JOG.

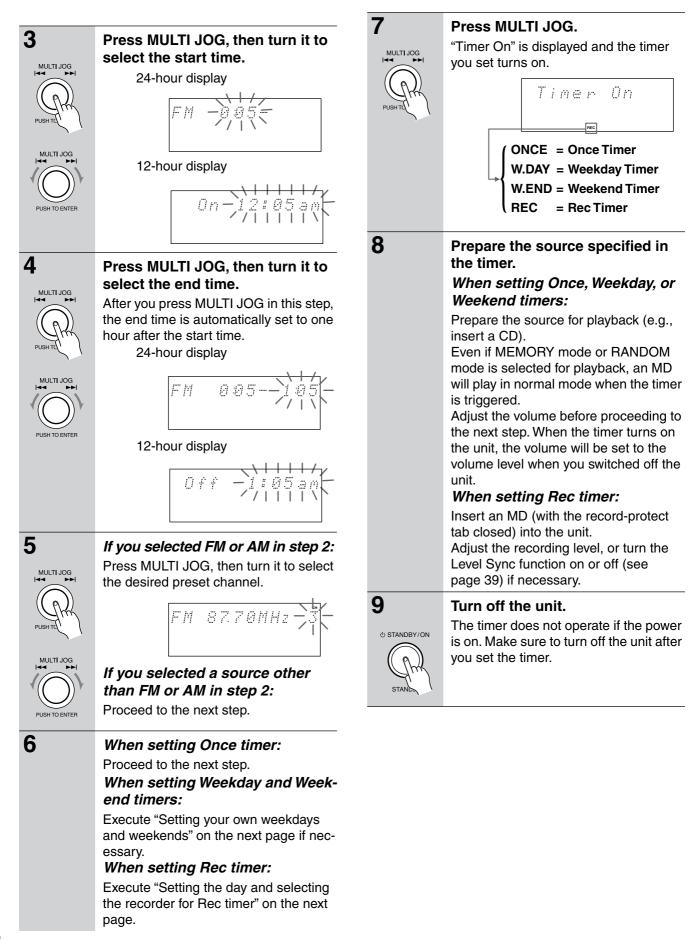
The Sleep timer starts operating.

The SLEEP indicator lights.

Setting the Once, Weekday, Weekend, or Rec timer



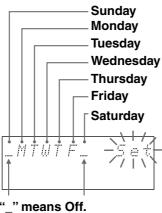
(Continued on the next page)



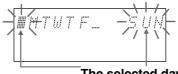
Setting the timer for weekdays and weekends

Press MULTI JOG.

Check the ON or OFF setting for each day. If you do not need to change the setting, skip the following steps, then proceed to step 7 on the previous page.



Turn MULTI JOG to select the day setting that you wish to modify.



The selected day

Bress MULTI JOG to modify the setting. Each press toggles the day On or Off.



Sunday has become On.

- To change the setting for the other days, repeat steps 2 and 3.
- Turn MULTI JOG until "Set" appears in the display.



6 Go back to Step 7 on the previous page.

Selecting the day(s) of the week and the recorder for Rec timer

Press MULTI JOG.

The "Once" or "Every" indicator flashes.

Turn MULTI JOG to select "Every" or "Once." Now you can set the day of the week for the timer.

If you selected "Once":

The selected recorder will record once on the closest specified day of the week.

Press MULTI JOG. The "NEXT" indicator or a day of the week flashes. If you select "NEXT," the recorder will record only once at the specified time. To change the day of the week, rotate MULTI JOG to display the desired day. For example:

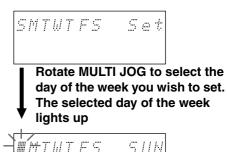


Today's day of Specified day of the week the week

Press MULTI JOG to complete the setting.

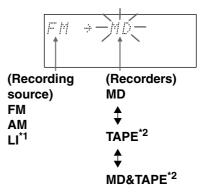
If you selected "Every":

The selected recorder will record at the specified time on every day of the week you specify. Press MULTI JOG to display the following message. (All days of the week are currently selected for timer recording.)



Refer to step (3), (4) in the left column for information on turning the selected day of the week on or off.

Press MULTI JOG, then turn it to select the recorder.



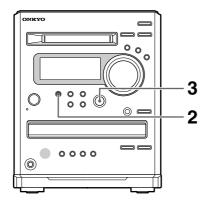
- *1 If you changed the name, the new name appears (see page 65).
- *2 If an Onkyo cassette tape deck is connected to the FR-N3X, change the input source indication from CD-R to TAPE. In this case, you can select "TAPE" or "MD&TAPE" as the recording device.

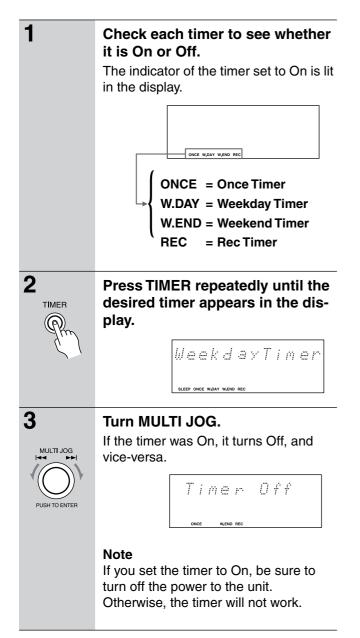
You can record the same source to the MD and a stereo cassette tape deck simultaneously if you select MD&TAPE.

4 Go back to Step **7** on the previous page.

Switching the set timer On/Off

You can switch each set timer to Off or On.





If the start or end time of one timer overlaps another

If the same start time is set in more than one timer:

The priority of the timers is as follows: Once, Weekday, Weekend, and Rec.

If the start time of a timer arrives while another timer is operating:

The timer that started first has priority over the overlapped timer. The latter timer will be canceled, including the end time.

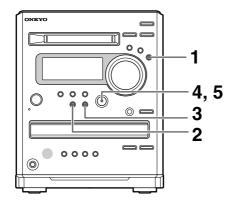
When you set the timer, make sure to keep at least a one minute interval between the end time of the former timer and the start time of the latter timer.

What happens to a Once timer if the power to the unit is on, or if the timer overlaps?

The timers will automatically be switched Off.

Customizing the source names

You can change the source name that appears in the display to suit any component you connected per the instructions on pages 9, 10.

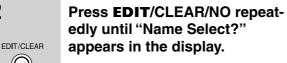




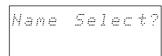
Press OTHER INPUTS until the source whose name you wish to change appears in the display.

The source names appear in the following order:











2

Press MULTI JOG.

PUSHTC

4

MULTI JOG

MULTI JOG

PUSH TO ENTER

Turn MULTI JOG to select a new name for the source.

Depending on the source you've selected in step **1**, the name changes in the following order:

CD-R \leftarrow TAPE \leftarrow DAT \downarrow PC \leftarrow HD \leftarrow MD 2 \leftarrow VCR **LINE** \leftarrow DVD \leftarrow VIDEO DISC \downarrow GAME \leftarrow TV \leftarrow DSR \leftarrow CS \leftarrow BS



Press MULTI JOG to enter the new name.

"Complete" appears in the display.

You may press MODE/**YES** instead of MULTI JOG to get the same result.

About the shorten source names

The short source names appear in the display depending on the situation. Check the short names in the table below.

Ordinary names	Shorten names
BS	BS
CD-R	CR
CS	CS
DAT	DT
DVD	DV
DSR	DR
GAME	GM
HD	HD
LINE	LI
MD2	M2
PC	PC
TAPE	TA
TV	TV
VCR	VC
VIDEO DISC	VD

Miscellaneous

Messages

The following table explains the messages that appear in the display.

Meaning
A recordable MD without disc or track names is inserted.
You tried to create a second digital copy from a digitally dubbed MD (see "Rules for digital recording" in the right column).
You tried to edit a playback-only disc.
You tried to record onto a playback-only disc.
You tried to set a timer while another timer was operating.
CD dubbing could not be activated.
The editing operation has been completed.
The disc is abnormal (scratched or missing a TOC).
The disc is full (see "System limitations" on page 68).
You tried to enter a character over the maximum character capacity while naming a disc, track, or group etc.
You tried to edit a disc using a function not available for some reason other than an MD system limitation
The unit is writing the recorded or edited contents to the MD.
An error occurred in the unit's internal mechanism.
You tried to store a 26th track or a 31st channel, exceeding the unit's capacity.
The naming capacity of the disc or unit has reached its limit.
The name has not been changed.
There is no disc in the unit.
The inserted disc is record-protected.
You tried to switch to another source while recording, or to perform a CD or tuner operation that is dis- abled during recording.
The recording attempt failed due to consecutive disturbances from scratches on the MD or from applied vibration.
The MD recorder has entered Signal Wait mode.
The CD text is copyrighted.
You tried to repeat double-speed dubbing using the same CD.
The unit failed to read or record onto a disc.

Rules for digital recording

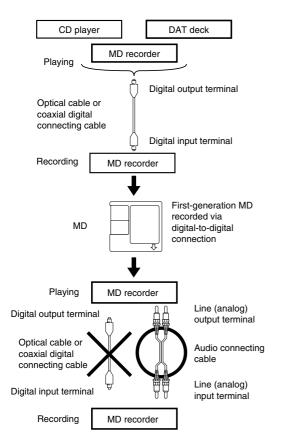
Guide to the serial copy management system

Since your MD unit uses the Serial Copy Management System (SCMS), MDs recorded through the digital input terminal cannot be used to make subsequent copies to other MDs through the digital output terminal. The following diagram shows a system for making copies through the digital or analog terminals.

Rule 1

You can record digital source (CD, premastered MD, and DAT equipment with a sampling frequency of 44.1 kHz) to a recordable MD through the digital input terminal.

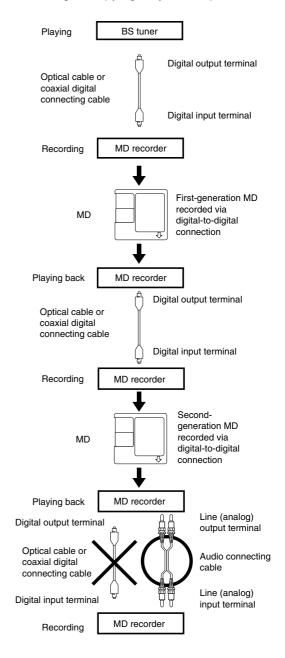
However, you cannot make subsequent copies from the recordable MD to other recordable MDs through the digital output terminal. Subsequent copies can be made only through the analog output terminal.



Rule 2

You can record a digital satellite broadcast signal onto a recordable MD via the digital input terminals on the MD recorder, which is capable of handling a sampling frequency of 32 kHz or 48 kHz. You can then record the contents of this recorded MD (first-generation) onto another recordable MD via digital input terminals on the MD recorder to create a second-generation digital copy.

Note, however, that with some BS tuners, secondgeneration digital copying may not be possible.

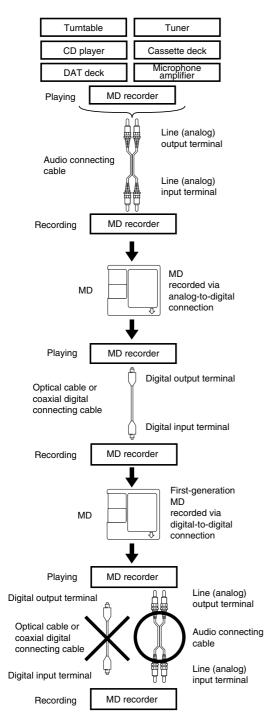


Rules for digital recording (continued)

Rule 3

A recordable MD with material recorded from analog sources (analog records or FM programs, etc.) through the line input terminal can be copied to another recordable MD through the digital output terminal. However, you cannot make subsequent copies from the recordable MD to other recordable MDs through the digital output terminal. Subsequent copies can be made only through the analog output terminal.

When MD recorders are connected using analog terminals, the number of dubbings is unlimited.



System limitations

The MD recording system in the unit is significantly different from those used in cassette and DAT decks and is characterized by the limitations described below. Note, however, that these limitations are due to the inherent nature of the MD recording system itself and not to mechanical causes.

 "Disc Full" lights up before the disc has reached the maximum recording time (60, 74, or 80 minutes).

When 255 tracks have been recorded on the disc, "Disc Full" lights up regardless of the total recorded time. You cannot record more than 256 tracks on the disc. To record new tracks, erase unnecessary tracks or use another MD.

• "Disc Full" lights up before the maximum number of tracks is reached.

If you use a disc that contains many edits, the "Disc Full" indicator may light up regardless of the recording time or the number of tracks.

- The remaining recordable time on the MD does not increase even after erasing numerous short tracks.
- Some tracks cannot be combined with others. Track combination may become impossible when tracks are edited.
- The remaining recordable time on the MD may decrease by more than the total recorded time, depending on the status of the MD or how you record.
- Tracks created through editing may exhibit sound dropout during searching operations.
- Track numbers are not recorded correctly. Incorrect assignment or recording of track numbers may result (1) when CD tracks are divided into several smaller tracks during digital recording, or (2) when certain CDs are recorded with the Level Sync On for automatic track marking.
- "MD Reading" appears for a long time. If an inserted recordable disc is brand new, "MD Reading" remains on the display longer than if the disc had been used.
- You can enter up to 1,792 characters on an MD. However, if you use the Group function, the maximum number will be lower.
- Group function data is written in the memory area for names.

If you input an excessive number of characters, the available data capacity will be reduced, possibly disabling Group functions. In this case, try to reduce the number of characters used for names.

Troubleshooting

Use this troubleshooting guide as an aid to remedy problems.

Problems may be caused by any component connected to this unit. Please check the table below, cross-referencing with the instruction manuals for the other components.

	Symptom	Cause	Remedy	Pages		
	The unit does not turn on.	The AC power cord (mains lead) is not fully inserted into the wall outlet (the mains).	Insert the AC power cord (mains lead) plug to the wall outlet (the mains) securely.	11		
Amplifier	No sound is reproduced from either the left or right speaker.	 The wire of the speaker cord is touching the other jacks, connectors, or metal parts. The volume level is turned down to the minimum. 	Check the speaker connections.Adjust the volume level.	8 16		
		• The sound is muted with the muting func- tion.	• Press MUTING on the remote control to restore the sound.	26		
		 The headphones are connected to the PHONES jack. The audio cables are not inserted firmly. 	 Turn down the volume level first, then disconnect the headphones. Check the connections and insert the audio connection cable plugs firmly. 	26 9, 10		
	Noise is audible.	Strong magnetism from a television or a simi- lar device may be interfering with operations.	Turn off any television or similar devices or move them away from the unit.	_		
	The disc skips.	 Vibrations are being transmitted to the unit. The disc is severely scratched. The disc is extremely dirty CD 	Place the unit in a vibration-free location.Replace the disc with a new one.Clean the disc.	— 12 12		
CD/MD	Track numbers cannot be stored when setting MEMORY playback.	 No disc is inserted in the unit. A track number not on the disc is being input. 	Insert a disc into the unit.Input only the track numbers on the disc.	20, 22 40		
	The disc is loaded in the disc tray, but playback will not begin.	 The disc is inserted with the wrong side facing upward. – CD The disc is extremely dirty. – CD The disc is dirty or damaged. ("Disc Error" appears in the display.) – MD The disc inserted is not recorded. – MD 	 Insert the disc with the label side facing upward. Clean the disc. Replace the disc with a new one. The disc may be reused after erasing all the data. Replace the disc with a recorded one. 	12, 20 12 12, 66 55 22		
		Moisture has formed inside the unit.	Take the disc out and leave the unit for several hours until the moisture evapo- rates.	3		
CD	Search time (when mov- ing to a specific track) is extremely long.	The disc is dirty.The disc is scratched.	Clean the disc.Replace the disc with a new one.	12 12		
	Disc cannot be loaded.	 The wrong side of the disc is being inserted. 	 Insert the disc in the direction of the arrow printed on the disc. 	22		
	The unit does not record.	 The disc is record-protected. ("Protected" appears in the display.) The unit is not connected properly to the 	Close the record-protect tab on the disc.Check the connections and insert the	12 9, 10		
		 sound source. The analog recording level is too low. A playback-only disc is inserted. ("Cannot Rec" appears in the display.) 	audio connection cable plugs firmly.Adjust the recording level properly.Replace the disc with a recordable one.	38 —		
ВD		• There is not enough time left on the disc.	• Replace the disc with another recordable disc with enough recording time, or delete unnecessary tracks from the disc.	55, 56		
		 "Retry Error" appears in the display. 	 Eject the MD, then insert it again and retry recording. 	_		
	The disc name or track name cannot be	 The disc is record-protected. ("Protected" appears.) 	Close the record-protect tab on the disc.	12		
	entered.	A playback-only disc is inserted. ("Cannot Rec" appears.)	Replace the disc with a recordable one.			
	If the unit does not operate properly even after attempting the prescribed remedies, unplug and then plug in the power cord again.					

Troubleshooting (continued)

	Symptom	Cause	Remedy	Pages
	Too much noise is audi- ble or the sound is inter- rupted occasionally. ("ST" indicator does not light steadily.)	 FM stereo signals may generate hiss at high levels. The position or direction of the antenna (aerial) is incorrect. Station is too weak. 	 Switch the frequency receiving mode to MONO. Adjust the position, height, and direction of the antenna (aerial). Connect an outdoor FM antenna (aerial). Try to use an antenna (aerial) having more elements. [For installation of the outdoor antenna (aerial), consult the nearest dealer as the process requires a special technique and experience.] 	25 6 6
	Sound is distorted or sound volume decreases.	 The radio signal is distorted. Cars are operating or airplanes are flying near the house. 		_
Tuner	Sound is excessively distorted.	There is a tall building or a mountain nearby. [The waves transmitted from transmission center (direct waves) and the waves dif- fracted by buildings or mountains (diffraction waves) interfere with each other causing multi bass distortion.]		_
	Noise interferes with the AM reception.	An electric or electronic device with the power turned on is in close proximity to the FR-N3X.	 Locate the AM indoor antenna far from the electric or electronic device. Turn off the power to the interfering elec- tric or electronic device. 	_
	Repetitive or cyclical noise is recorded along with an AM broadcasting program.	The AM indoor antenna is located close to the FR-N3X.	Locate the AM indoor antenna further from the FR-N3X.	_
	The timer did not oper- ate.	 The unit was already on when the start time arrived. The timer overlapped another timer.	 The timer does not operate if the unit has been turned on. To set the timer, turn off the unit. Set the timer to a different time. 	62 62
Timer	No sound was repro- duced when the timer was activated.	• While the Rec timer is operating, the sound is muted.	• If you wish to check the recording sound, press MUTING on the remote control to turn off the muting function.	62
		• When the playback timer (Once, Weekday, or Weekend timer) is operating, the volume will become the same as the volume when you last switched the unit off.	Adjust the volume. Adjust the volume properly before you turn off the unit to set the timer.	62
	The remote control does not operate.	 The batteries in the remote control are dead. Your position is too far from the unit's 	Replace the batteries with new ones.Check the effective range of the remote	13 13
control		 There is an obstruction between the remote control and the unit. 	 Try to operate the remote control from a different angle, or remove the obstruction. 	13
Remote control	The remote control oper- ates the unit but does not operate the Onkyo stereo cassette tape	 The RI cable is not connected. 	 Connect the system correctly, cross-referencing the Onkyo stereo cassette tape deck and CD recorder instruction manual. Connect the unit and stereo cassette 	9
	deck and CD recorder.		tape deck and CD recorder correctly using the RI cable and the audio pin cable.	9, 10

This unit contains a sensitive microcomputer, which under certain circumstances might fail to operate due to excessive noise interference. In such cases, disconnect the AC power from the electrical outlet, wait five seconds and reconnect the AC power.

Specifications

General

Power supply		AC 220-230 V, 50/60 Hz AC 120 V, 60 Hz	Signal readout system Frequency response	Optical non-contact 10 Hz to 20 kHz (± 2 dB)
Power consumption		46 W (220-230 V, 50/60 Hz) 55 W (120 V, 60 Hz)	Wow and flutter	Below threshold of measurability
(Standby))	1.5 W		-
Clock prec	sision	monthly error: +/-30 seconds (at 25 degrees Celsius)	Tuner	
Dimension	is (W \times H \times D)	155 × 190 × 361 mm	Tuning range	FM: 87.50 to 108.00 MHz
Weight		4.7 kg		(50 kHz steps)
				AM: 522 to 1611 kHz
Amplifior				(9 kHz steps)
Amplifier			Usable sensitivity	FM Mono:11.2 dBf,
Power out	put	2×18 W at 4Ω EIAJ	-	1.0 μV (75 Ω IHF)
-		2×15 W at 6 Ω EIAJ		Stereo:17.2 dBf,
		Rated Power		2.0 μV (75 Ω IHF)
		2 $ imes$ 13 W min, RMS at 4 Ω		AM: 30 μV
		1 kHz no more than	50 dB quieting sensitivity	FM Mono:17.2 dBf,
		0.4 % THD		2.0μV (75 Ω)
Dynamic p		$2 imes$ 14 W at 4 Ω		Stereo:37.2 dBf,
Total harmo	onic distortion	0.4 % at rated power		20.0 μV (75 Ω)
IM distortion	on	0.4 % at rated power	Capture ratio	2.0 dB
Damping f		25 at 8 Ω	Image rejection ratio	FM: 85 dB
	and impedance			AM: 40 dB
LINE, CD		300 mV, 50 kΩ	IF rejection ratio	FM: 90 dB
CDR/TAP		300 mV, 50 kΩ		AM: 40 dB
Frequency		10 to 100,000 Hz : +3.5, -3dB	Signal to noise ratio	FM Mono : 72 dB IHF
Tone Cont				Stereo : 67 dB IHF
	+10 dB at 50	Hz		AM: 40 dB
Bass	120 Hz		Selectivity	FM: 50 dB
		7, –5, –2.5, 0, +2.5, +5, +7 dB)		(±300 kHz at 40 kHz devi.)
Treble	10 kHz		Harmonic distortion	FM: Mono: 1.0 %
	/ positions (-	7, -5, -2.5, 0, +2.5, +5, +7 dB)		Stereo: 0.3 %
Muting		50 dB	-	AM: 0.7 %
			Frequency response	FM: 30 to 15,000 Hz (±1.5
CD player			0	dB)
piajo	-		Stereo separation	FM: 45 dB at 1,000 Hz

MD recorder

Signal readout system Optical non-contact Frequency response 10 Hz to 20 kHz (± 2 dB) Wow and flutter Below threshold of measurability

Specifications and features are subject to change without notice.

FM: 30 dB at 100 to 10,000 Hz

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