KENW00D

HM-381MD

INSTRUCTION MANUAL

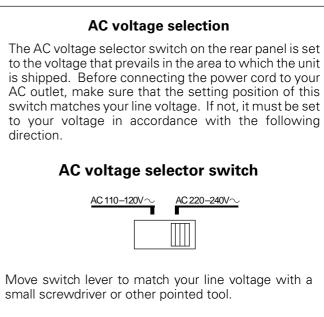
KENWOOD CORPORATION



B60-4129-00 00 CH (T/M/X) OC 9901

Units are designed for operation as follows.

Europe and U.K. AC 230V only *Other countries...... AC 110-120 / 220-240 V switchable



Note:

Our warranty does not cover damage caused by excessive line voltage due to improper setting of the AC voltage selector switch.

Safety precautions

WARNING : TO PREVENT FIRE OR ELECTRIC SHOCK, DO NOT EXPOSE THIS APPLIANCE TO RAIN OR MOISTURE.

CAUTION RISK OF ELECTRIC SHOO DO NOT OPEN	rk I	CAUTION: TO REDUCE THE RISK OF ELECTRIC SHOCK, DO NOT REMOVE COVER (OR BACK). NO USER-SERVICEABLE PARTS INSIDE, REFER SER- VICING TO QUALIFIED SERVICE PERSONNEL.
Â	ANGLE, IS INTE GEROUS VOLTA	G FLASH WITH ARROWHEAD SYMBOL, WITHIN AN EQUILATERAL TRI- ENDED TO ALERT THE USER TO THE PRESENCE OF UNINSULATED "DAN- AGE" WITHIN THE PRODUCT'S ENCLOSURE THAT MAY BE OF SUFFICIENT O CONSTITUTE A RISK OF ELECTRIC SHOCK TO PERSONS.
	THE USER TO T	TION POINT WITHIN AN EQUILATERAL TRIANGLE IS INTENDED TO ALERT THE PRESENCE OF IMPORTANT OPERATING AND MAINTENANCE (SER- UCTIONS IN THE LITERATURE ACCOMPANYING THE APPLIANCE.

The marking of products using lasers (Except for some areas)

CLASS 1 LASER PRODUCT

The marking is located on the rear panel and says that the component uses laser beams that have been classified as Class 1. It means that the unit is utilizing laser beams that are of a weaker class. There is no danger of hazardous radiation outside the unit.

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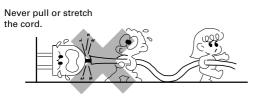
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Please read all of the safety and operating instructions before operating this appliance. Adhere to all warnings on the appliance and in the instruction manual. Follow all the safety and operating instructions. These safety and operating instructions should be retained for future reference.

- 1. Power sources The appliance should be connected to a power supply only of the type described in the instruction manual or as marked on the appliance. If you are not sure of the type of power supply to your home, consult your appliance dealer or local power company. For appliances intended to operate from battery power, or other sources, refer to the instruction manual.
- 2. 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 where they exit from the appliance.



- **3. CAUTION Polarization** This 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 fail to fit, contact your electrician to replace your obsolete outlet. Do not defeat the safety purpose of the polarized plug.
- 4. Ventilation Slots and openings in the cabinet are provided for ventilation and to ensure reliable operation of the appliance and to protect it from overheating, and these openings must not be blocked or covered. The appliance should be situated so that its location or position does not interfere with its proper ventilation.

To maintain good ventilation, do not put records or a tablecloth on the appliance. Place the appliance at least 10 cm away from the walls.

Do not use the appliance on a bed, sofa, rug or similar surface that may block the ventilation openings. This appliance should not be placed in a built-in installation such as a bookcase or rack unless proper ventilation is provided or the manufacturer's instructions have been adhered to.

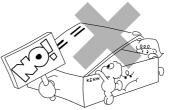


5. Water and moisture – The appliance should not be used near water - for example, near a bathtub, washbowl, kitchen sink, laundry tub, in a wet basement, or near a swimming pool, etc.

- Temperature The appliance may not function properly if used at extremely low, or freezing temperatures. The ideal ambient temperature is above +5°C (41°F).
- 7. Heat The appliance should be situated away from heat sources such as radiators, heat registers, stoves, or other appliances (including amplifiers) that produce heat.
- 8. Electric shock Care should be taken so that objects do not fall and liquid is not spilled into the enclosure through openings. If a metal objects, such as a hair pin or a needle, comes into contact with the inside of this appliance, a dangerous electric shock may result. For families with children, never permit children to put anything, especially metal, inside this appliance.



9. Enclosure removal – Never remove the enclosure. If the internal parts are touched accidentally, a serious electric shock might occur.



- 10.Magnetic fields Keep the appliance away from sources of magnetic fields such as TV sets, speaker systems, radios, motorized toys or magnetized objects.
- **11.Cleaning** Unplug this appliance from the wall outlet before cleaning. Do not use volatile solvents such as alcohol, paint thinner, gasoline, or benzine, etc. to clean the cabinet. Use a clean dry cloth.
- **12.Accessories** Do not place this 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. An appliance and cart combination should be moved with care. Quick stops, excessive force, and uneven surfaces may cause the appliance and cart combination to overturn.



- **13. Lightning** For added protection for this 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.
- **14.Abnormal smell** If an abnormal smell or smoke is detected, immediately turn the power OFF and unplug the appliance from the wall outlet. Contact your dealer or nearest service center.



15.Damage requiring service – The appliance should be serviced by gualified service personnel when:

A. The power-supply cord or the plug has been damaged.

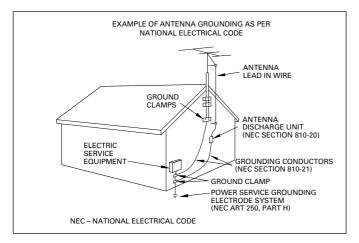
B. Objects have fallen, or liquid has been spilled into the appliance.

C. The appliance has been exposed to rain or water.

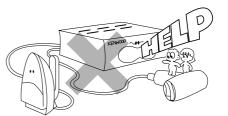
D. The appliance does not appear to operate normally by following the instruction manual. Adjust only those controls that are covered by the instruction manual as an improper adjustment of other controls may result in damage and will often require extensive work by a qualified technician to restore the appliance to its normal operation.
E. The appliance has been dropped, or the enclosure damaged.

F. The appliance exhibits a marked change in performance.

- **16.Servicing** The user should not attempt to service the appliance beyond that described in the instruction manual. All other servicing should be referred to qualified service personnel.
- **17.Outdoor antenna grounding** If an outside antenna is connected to the appliance, be sure the antenna system is grounded so as to provide some protection against voltage surges and built up static charges. Article 810 of the National Electrical Code ANSI/ NFPA 70, provides information with respect 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.



- **18. Power lines** An outside antenna system should not be located in the vicinity of overhead power lines or other electric light or power circuits, or where it can fall into such power lines or circuits. When installing an outside antenna system, extreme care should be taken to keep from touching such power lines or circuits as contact with them might be fatal.
- **19.AC outlets** Do not connect other audio equipment with a power consumption larger than that specified to the AC outlet on the rear panel. Never connect other electrical appliances, such as an iron or toaster, to it to prevent fire or electric shock.



- **20. Overloading** Do not overload wall outlets, extension cords, or integral convenience receptacles as this can result in a risk of fire or electric shock.
- **21. Attachment** Do not use attachments not recommended by the appliance manufacturer as they may cause hazards.
- **22. Replacement parts** When replacement parts are required, be sure the service technician has used replacement parts specified by the manufacturer or have the same characteristics as the original parts. Unauthorized substitutions may result in fire, electric shock, or other hazards.
- **23. Safety check** Upon completion of any service or repairs to this appliance, ask the service technician to perform safety checks to determine that the appliance is in proper operating condition.

Notes:

- 1. Item 3 is not required except for grounded or polarized equipment.
- 2. Item 17 and 18 are not required except for units provided with antenna terminals.
- 3. Item 17 complies with UL in the U.S.A.

Preparation section

Special features

An MD recorder is standard equipment

An MD recorder with high digital sound quality is standard equipment. Digital copying from a CD is also easy. This recorder has many functions like recording and display of names for discs and titles, changing the sequence of tracks, etc.

CD player and auto-reverse cassette deck as standard equipment

A CD player and auto-reverse cassette deck are also provided in addition the MD recorder, making the unit an integrated micro stereo system for enjoyment of multiple music sources.

Convenient Recording Methods

Various versatile recording functions are provided according to the use purposes.

- •One-touch recording : Recording of one CD or one track by pressing a single key
- •TWIN REC function : Simultaneous recording from CD to MD and tape.
- •Program recording : Any desired tracks can be recorded in the desired sequence

Convenient timer functions

Two-program timer : Timer playback, timer recording and AI timer playback can be programmed.
AI timer : When the unit is turned ON by the timer, the sound level increases gradually.
O.T.T. : Timer with easy setting, which operates only once.

Sleep timer : Useful when you want to go asleep while listening to music.

In regard to demonstration

This unit is equipped with a demonstration function (only display). The demonstration consists of sequential change of display and indicators showing the operations, but the audio itself does not change. The demonstration function can be cancelled as follows.



DEMO OFF (To cancel demonstration): Press the "set/demo" key when DEMO is ON. DEMO ON (To execute demonstration): After turning power ON, press and hold the "set/demo" key (for more than 2 seconds).

- Even when DEMO is ON, stations with weak radio waves are muted and their sound cannot be heard.
- This operates automatically when a power failure has occurred or the plug of the power cable has been pulled while the power was ON. Cancellation is possible by pressing the key during the demonstration.

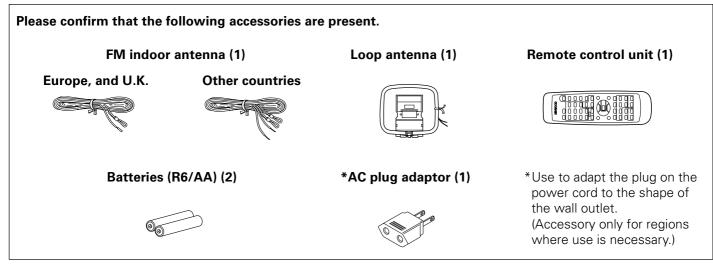
Unpacking

Unpack the unit carefully and make sure that all accessories are put aside so they will not be lost.

Examine the unit for any possibility of shipping damage. If your unit is damaged or fails to operate, notify your dealer immediately. If your unit was shipped to you directly, notify the shipping company without delay. Only the consignee (the person or company receiving the unit) can file a claim against the carrier for shipping damage.

We recommend that you retain the original carton and packing materials for use should you transport or ship the unit in the future.

Accessories



Handling of discs

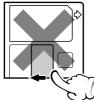
ecautions	Discs which can be played with this unit
Handling Hold the discs so that you do not ouch the playing surface.	CD (12 cm, 8 cm), and the audio part of CDV, CD-G, CD-EG and CD-EXTRA. Use discs that comply with the IEC standard, for example a disc carrying the disc marking on the label surface.
side g side	
Do not attach paper or tape to ei- her the playing side or the label side of the discs.	Never play a cracked or warped disc During playback, the disc rotates at high speed in the player. Therefore, to avoid danger, never use a cracked or deformed disc or a disc repaired with tape or adhesive agent. Please do not use discs which are not round because they may cause a malfunction.
ste	
Cleaning f fingerprints or foreign matter be- come attached to the disc, lightly vipe the disc with a soft cotton cloth or similar) from the center of the disc outwards in a radial manner.	Disc accessories The disc accessories (stabilizer, protection sheet, protec- tion ring, etc.) which are marketed for improving the sound quality or protecting discs as well as the disc cleaner should not be used with this system because they may cause malfunction.
Storage When a disc is not to be played for a long period of time, remove it from he player and store it in its case.	
	Handling Hold the discs so that you do not buch the playing surface. Side g side Do not attach paper or tape to ei- her the playing side or the label side if the discs. Atter Cleaning Fingerprints or foreign matter be- ome attached to the disc, lightly vipe the disc with a soft cotton cloth or similar) from the center of the disc utwards in a radial manner. Cleanes Storage When a disc is not to be played for long period of time, remove it from

Handling of Mini Disc

As the Mini Disc is accommodated inside a cartridge, it can be handled without caring about dust or fingerprint. However, stained or soiled cartridge may cause malfunction. To enjoy beautiful sound for extended period of time, take care on the following points.

Do not touch the disc directly.

Do not touch the disc by opening the shutter with your hand. The cartridge will be damaged if it is forced open.



Storage position

Do not leave Mini Discs in place where the temperature and/or humidity are extremely high (for example, in a place subject to direct sunlight).

Dust countermeasure

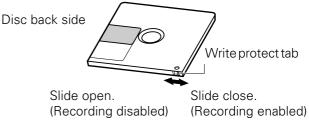
The shutter of the disc cartridge is permanently open while the disc is loaded in the set. Therefore, to prevent dust from penetrating inside the disc, take the disc out of the unit immediately after completion of recording or playback.

Care

Wipe periodically dust and dirt attached on the cartridge with a dry cloth.

Write protect tab

To protect recorded contents against accidental erasure, set the write protect tab of the disc open. Return the tab to the original position when you want to record signals on the disc.

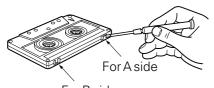


• If the write protect tab is opened, "**PROTECTED**" appears on the dot display.

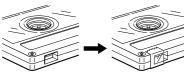
Notes on cassette tape

Safety tab (accidental erasure prevention tab)

After an important recording has been finished, break the safety tab, to prevent the recorded contents from being erased or recorded on accidentally.







Apply tape only to the position where the tab has been removed.

1. Longer tape than 110 minutes cassette tape

Since longer tape than 110 minutes cassette tape is very thin, the tape could adhere to the pinch roller or be easily broken. It is recommended that these tapes not be used with this unit to prevent possible damage.

2. Endless tapes

To re-record

Notes

Do not use an endless tape, as this could damage the mechanism of the unit.

Digital recording and SCMS

Designed for copyright protection, Copy using the SCMS is a prescription that digital input Copy using copying of digital signals as they digital input **Digital copy cannot** are in the digital form between be repeated. digital audio equipment is allowable only for one generation. Digital recording is not available with commercially marketed music soft-Copy using ware (CD, MD, etc.) containing the analog input Copy using copy prohibit code. analog input Copy using Copy using analog input digital input Copy using digital input

To store cassette tapes

Do not store the tapes in a place which is subject to direct sunlight, or near equipment that generates heat. Keep the cassette tapes away from any magnetic field.



When there is slack in the tape

In such a case, insert a pencil into the reel hole and wind the reel hub to remove the slack.



AM loop antenna

reception.

Connection of the System Accessories

This figure shows the method of connection between the main unit and provided accessories.

The supplied antenna is for indoor use. Place it as far as

possible from the main system, TV set, speaker cords and

power cord, and set it to a direction which provides the best

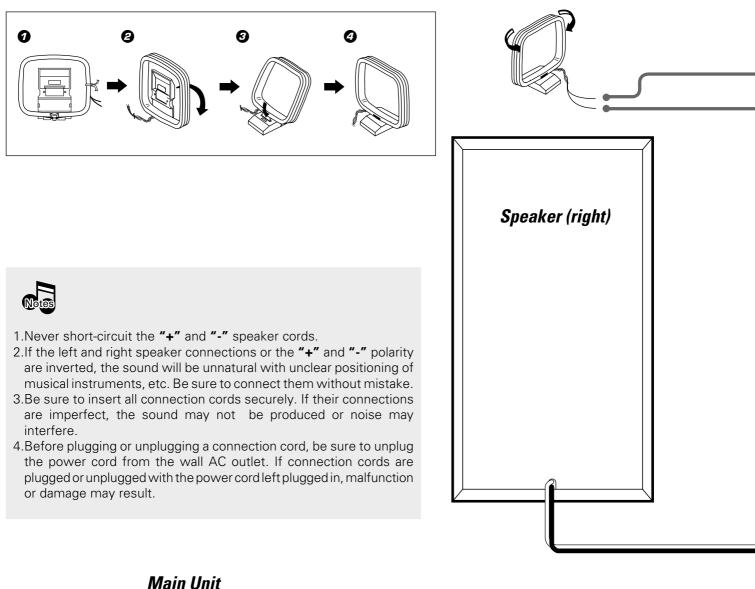
CAUTION Note on Connection

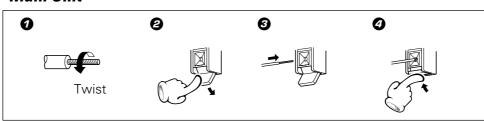
Connect the components as shown in the diagram.

Only plug the power cord into a power outlet once connections are completed.

Malfunction of microcomputer

If operation is not possible or erroneous display appears even though all connections have been made properly, reset the microcomputer referring to "In case of difficulty". $\rightarrow \boxed{70}$

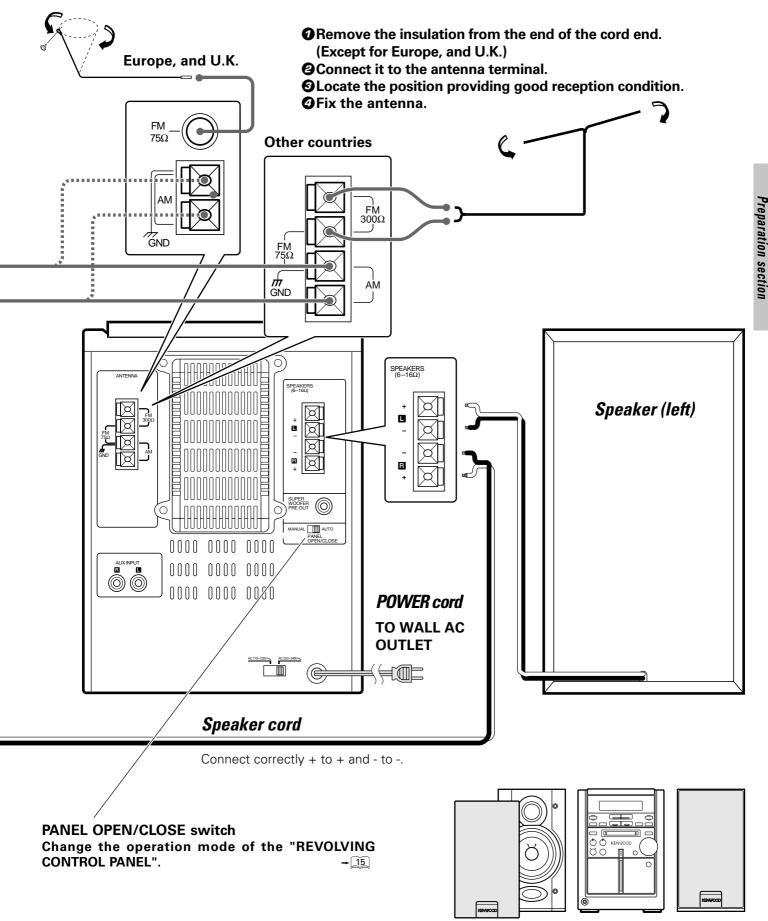




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FM indoor antenna

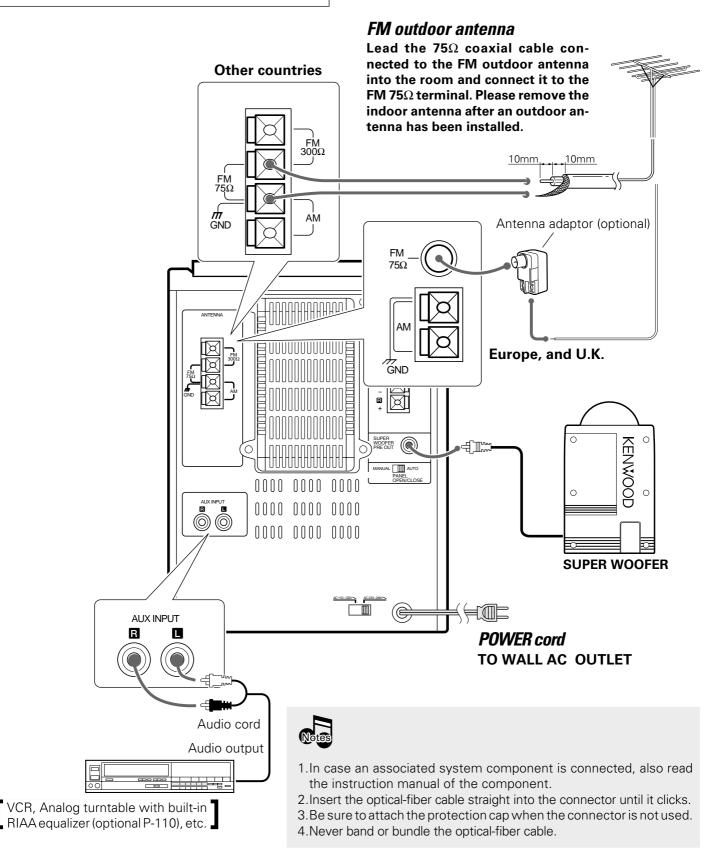
The accessory antenna is for temporary indoor use only. For stable signal reception we recommend using an outdoor antenna. Remove the indoor antenna if you connect one outdoors.



Connection of Other Accessories (Commercially Available Parts)

CAUTION Note on Connection

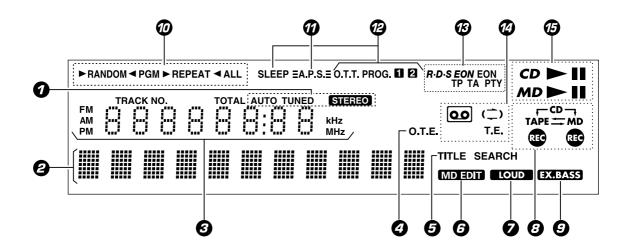
Connect the components as shown in the diagram. Only plug the power cord into a power outlet once connections are completed.



13

Display

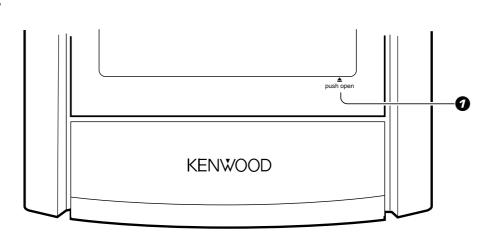
(The displays given in this manual are approximations only. They may differ from what actually appears on the display.)

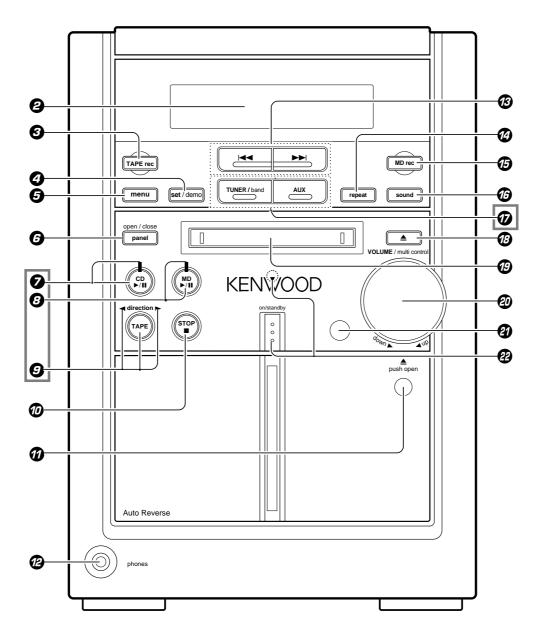


- Tuner-related indicators
- Character information display section (dot display) Shows character information including the input selection, volume level and disc/track title.
- Character information display section
 Frequency indication, time indication, track No., program No., etc.
- **O.T.E. (ONE TOUCH EDIT) indication** Appears during one-touch recording.
- **G** TITLE SEARCH indication
- **G** MD EDIT indication

- LOUD (Loudness) indication
- **③** TAPE REC and MD REC indicators
- EX.BASS (extra bass) indication
- **1** Indication related to CD/MD
- **Ø** Auto Power Save indicator
- ⑦ Timer-related indicators
- RDS-related indication (except for some areas)
- Cassette deck, reverse mode and TAPE equalizer (T.E.) indicators
- CD/MD play/pause indicators
 Indicates the play and pause modes of CD and MD.

Main unit





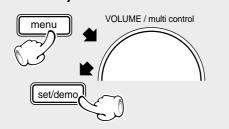
About the one-touch operation function

This unit incorporates the one-touch operation function for the user's convenience.			
With this function, pressing any key enclosed in 🔲 while the unit is in standby mode			
immediately start playback (or reception).			

⑦ CD cover open (▲)
Press to open the CD player cover.
9 Display
Ø Tape record key (TAPE rec) → 33 → →
Press to start recording. Pressing the key during recording
stops it after leaving a non-recorded space (blank) of about 4
seconds.
🥝 "set/demo" key
Press to set or enter an item selected with the "VOLUME/
multi control".
Used for demonstration ON/OFF.
Press to switch the function of the "VOLUME/multi control
(up/down)" knob.
This key is also used when setting the time of the day.
"panel open / close" key Op plan/apara kay (Op > (m)
CD play/pause key (CD \rightarrow /II) $\rightarrow 20$
Press to select the CD input and start CD playback. Press during CD playback to let it pause temporarily.
MD play/pause key (MD ►/II) → 22
Press to select the MD input and start MD playback.
Press during MD playback to let it pause temporarily.
Press during MD recording to let it pause temporarily.
• Tape play key (TAPE)/
TAPE direction indicator $\rightarrow 26$
Ø Stop key (∎)
Cassette holder
Press the area marked " A push open" to load or eject a tape.
"phones" jack
Headphones with a stereo mini plug (optional) can be con-
nected.
Skip/search keys (I◄◄, ►►I/◄◄, ►►) Skip/search keys (I◄◄, ►►I/◄◄, ►►)
During CD or MD operation : $\rightarrow 21 \rightarrow 23$

* About the VOLUME/multi control (up/down) knob

After selecting the function of this knob with the "menu" key, select the desired control item by turning the "VOLUME/multi control (up/down)" knob. To set or enter the setting of the selected item, press the "set/demo" key.



About the REVOLVING CONTROL PANEL AUTO

- The REVOLVING CONTROL PANEL is closed when the power supply is in STANDBY mode.
- When the power is switched ON, the REVOLVING CONTROL PANEL opens.
- When the power is ON, the panel opens and closes alternately each time the "panel open / close" key is pressed.

	Press to skip tracks in the forward or backward direction.
	During TAPE operation : $\rightarrow \boxed{27}$ Press to search in the forward or backward direction.
	During TUNER operation :
	Press to receive a preset station.
	These keys are also used during MD editing, track number
	selection and title character selection.
Ø	• "repeat" key → 35 → 38
-	Used for repeated playback of CD or MD.
Ð	MD record key (MD rec) → 31
_	Press to start MD recording.
16	o "sound" key → 19
-	Used for switching the EX.BASS play and LOUDNESS play.
Ð	• "TUNER/band" key → 28
	The received broadcasting band is switched.
	Press to select the TUNER input.
	AUX input key Press to listen to the input source connected to AUX (analog
	external).
ß	MD eject key(≜)
Ŭ	This key is pressed to remove disc.
Ð	Mini Disc insertion slot
* @	• "VOLUME/multi control (up/down)" knob - 15
_	Normally this is used for volume adjustment.
	Remote sensor
æ	"on/standby" key
	The system is switched ON and STANDBY.
	Standby / timer indicator
	Light in standby mode of power.
	Red :Normal standby mode Orange :O.T.T. standby
	Program timer standby
	Green :Power ON mode

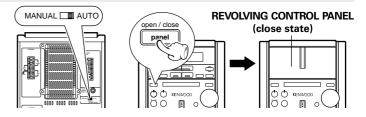
Turning the knob switches the function as shown in the character information display.

► TAPE RVS.	?	→ <u>27</u>]
O.T.E.	?	→ 45	j
A. MEMORY (or A. PRESET	T) ? → 29]
(Only when the	TUNER inpu	ut is selected)	
AUX LEVEL	?	→ 62]
(Only when the	AUX input is	s selected)	
BALANCE	?	→ 61]
TIMER SET	?	→ 64	j
🗕 A.P.S. SET	?	→ 19]

• The function of the control knob returns to the normal mode when it has not been operated for 5 seconds.

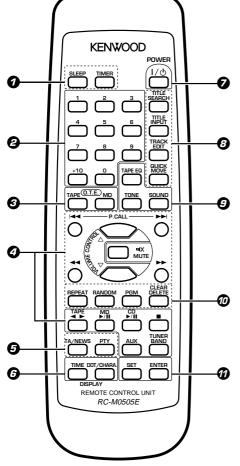
MANUAL

• When the power is ON, the panel opens and closes alternately each time the "panel open / close" key is pressed.



Preparation section

Remote control unit



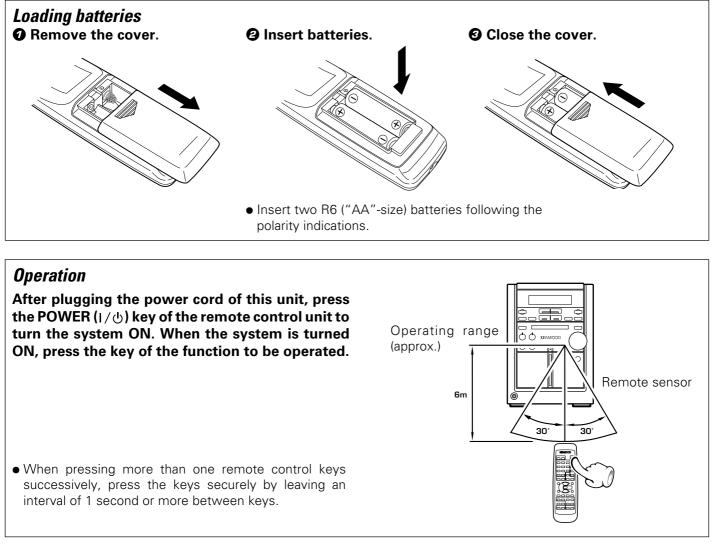
Infrared ray system Model : RC-M0505E (For Europe and U.K.) : RC-M0503 (For other countries)

Ø SLEEP key → 67
This is used to set the sleep timer.
TIMER key → <u>67</u>
Used to select the timer.
2 Numeric keys
These are used to select CD or MD tracks and as preset call keys
for the tuner.
3 TAPE O.T.E. key/ MD O.T.E. key $\rightarrow 45$
These keys are used for recording of a CD onto tape or MD with a one-touch operation.
Press either key during CD playback to record the currently
played track onto tape or MD. Press in stop mode to record
the entire CD onto tape or MD.
Ø Basic operation keys
P.CALL/skip keys (I◄◀, ▶►I)
During CD or MD operation : $\rightarrow 21 \rightarrow 23 \rightarrow 50$
Press to skip tracks in the forward or backward direction.
These keys are used in MD editing, input character selection.
During TUNER operation: $\rightarrow \boxed{28}$
Press to receive a preset station.
Fast forward, fast reverse keys (◄◄, ►)
During CD,MD or TAPE operation:
$\div 21 \div 23 \div 27 \div 52$
Press to search in the forward or backward direction.
Use these to move the cursor when inputting MD titles.
During TUNER operation:
Press to select a radio station.

The keys on the remote control unit with the same names as on the main unit have the same function as the keys on the main unit.

	VOLUME CONTROL (△,▽) keys MUTE key This is used to suppress the sound temporarily. TAPE ◀ ► key MD ►/II key CD ►/II key Stop key (■) AUX key	- 18
	TUNER BAND key RDS-related keys (Only some areas) TA/NEWS key Used at the time of EON reservation. PTY key Used at the time of program type detection.	→ <u>42</u> → <u>40</u>
	TIME key Press to switch the time information displayed during MD playback. DOT/CHARA. key This key switches the display mode of the dot display POWER (I / 小) key → 18 The system is switched ON and STANDBY.	→ 25 → 67
8	This key is also used to activate or cancel the timer pr execution. TITLE SEARCH key This is used in searching an MD title. TITLE INPUT key This is used in MD title input operation. TRACK EDIT key → 55 → 57 This is used in MD editing for reordering tracks, defined to the second seco	→ <u>24</u> → <u>50</u> → <u>58</u>
9	tracks, etc. QUICK MOVE key This is used in reordering of MD tracks. SOUND key Used for switching the EX.BASS play and LOUDNESS	→ <u>53</u> → <u>19</u>
Ø	TAPE EQ. keyKeys related to CD and MD(Common keys for CD and MD function for CD or according to the input selection.)REPEAT key (CD, MD)→ 35This is used for repeated playback.RANDOM key (CD)Playback of the CD tracks in random order.PGM key (CD, MD)→ 34	
Ð	This is used to program the track sequence. During TUNER operation: Used to switch the tuning mode between "AUTO" tuning, stereo reception) and Manual (manual tuning, m ral reception). CLEAR DELETE key (CD, MD) \rightarrow $34 \rightarrow 37$ The programmed track sequence is cleared. SET key This is used to set an MD editing operation or to set on the item selected with the "VOLUME/multi control" ENTER key This is used to execute an MD editing operation or to er input title. It is also used to enter the preset station m in the tuner.	

Preparation section



Notes 2

The provided batteries are intended for use in operation checking, and their service life may be short.
 When the remote controllable distance becomes short, replace both of the batteries with new ones.
 If direct sunlight or the light of a high-frequency fluorescent lamp (inverter type, etc.) is incident to the remote sensor, malfunction may occur. In such a case, change the installation position to avoid malfunction.

Channel space switching (Except for the United Kingdom and Australia)

The space between radio channels has been set to the one that prevails in the area to which the system is shipped. However, if the current channel space setting does not match the setting in the area where the system is to be used, for instance when you move from area 1 or area 2 shown in the following table or vice versa, proper reception of AM/FM broadcasts cannot be expected. In this case, change the channel space setting in accordance with your area by referring to the following table.

Area	CHANNEL
Aica	Space Frequency
1 USA, Canada and American count	South FM: 100 kHz ries AM: 10 kHz
2 Other countrie	es FM: 50 kHz AM: 9 kHz

O Turn power on.

O Press the TUNER/band key

O Select the mode by using the "repeat" key.

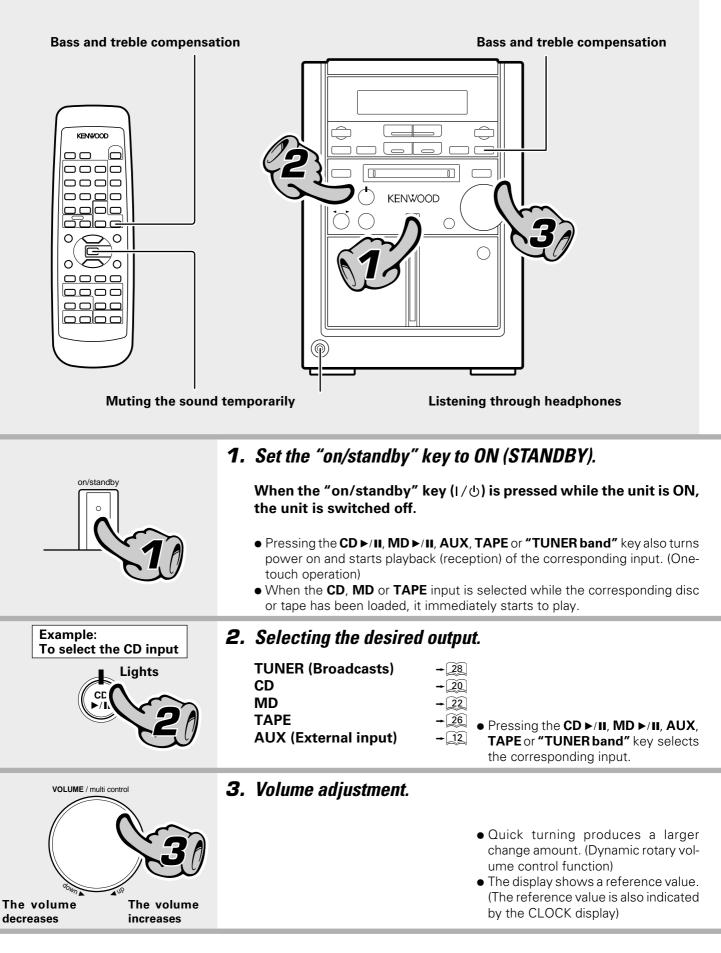


Establish the selection by pressing the "set/ demo" key.

HM-381MD (En)

Basic use method

Basic section



Listening through headphones

Insert the headphone plug into the "phones" jack.



- Headphones with a stereo mini plug can be connected.
- The sounds from all speakers are cut off.

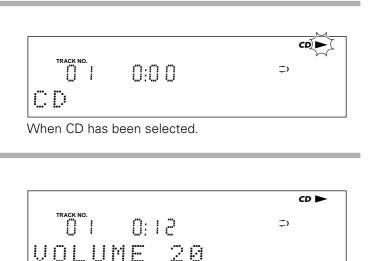
Muting the sound temporarily (Remote control unit only)



- Press again to resume the original volume.
- This is also cancelled when the volume is changed.

Standby mode

When the standby/timer indicator on the main unit lights in red or orange, a minute current flows for memory protection. This condition is called standby mode.



Volume display

Bass and treble compensation



- Each press switches the modes as follows.
 - ► ① "EX.BASS" (Extra Bass) lights.
 - The lowest and highest frequencies are enhanced regardless of the current volume level.
 - 2 "LOUD" (Loudness) lights. The lowest and highest frequencies are enhanced according to the current volume level. (Effective during low-volume listening.)
 - ^L ③ Both indicators off. Sound enhancement mode is disengaged.
- Adjusting the tone while the "LOUD" or "EX.BASS" indicator is lit turns it off and cancels the sound enhancement mode.

AUTO POWER SAVE function

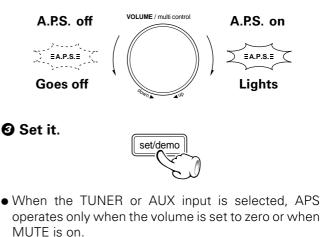
When the unit is ON and the unit is left for 30 minutes with CD, MD and TAPE not operating, the unit is switched off automatically by this function. This is convenient when you forgot to switch off the unit. This function can be activated or deactivated by the following operation.





(Press the "set/demo" key while the "?" mark is blinking.)

Select.

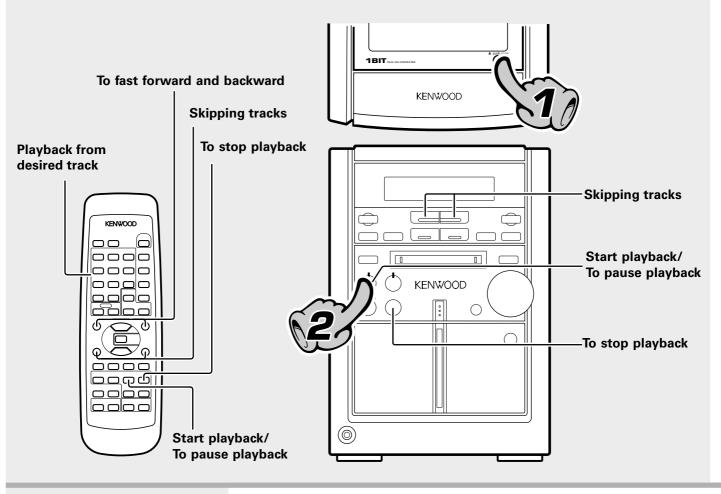


HM-381MD (En)

Playback of CD



When a disc is placed into the CD player in advance, the unit will be switched on automatically by pressing the CD \triangleright/II key, and playback will start.



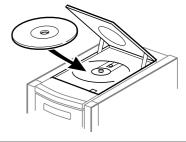
Open the CD cover.



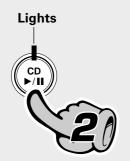
1. Load a disc.

Open the CD cover.
Place a disc.
Close the CD cover.

The label side must be on top.



2. Start playback.



Basic section

Let's put out some sound

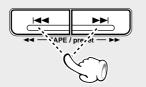
HM-381MD (En)

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Skipping tracks

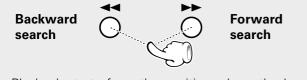
To skip backward

To skip forward



- The track in the direction of the key pressed is skipped, and the selected track will be played from the beginning.
- When the I key is pressed once during playback, the track being played will be played from the beginning.
- Operation also is possible with the keys I ◄ and ►►I of the remote control unit.

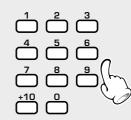
To fast forward and backward (Remote control unit only)



• Playback starts from the position where the key is released.

Playback from desired track

Select the desired track No.



Press the numeric keys as shown below.... To select track No. 23 : +10 +10 3

To select track No. 40 : +10 +10 +10 0

To pause playback



• Each press pauses and plays the CD alternately.

To stop playback



In regard to CD-TEXT

When discs conforming to CD-TEXT are played with this unit, the text information recorded on the CD (disc name or titles) is displayed automatically.

Time display on CD player

(Remote control unit only)

Each press of the TIME key changes the displayed contents.

- ► ① [: P = (Elapsed time of track being played)
- ② 2:3 7 (Remaining time of track being played)

(Elapsed time of entire disc)

• Only time information ① and ② can be displayed during single-track repeated playback or random playback.

• Do not touch the played side of disc.

• Be sure to place a disc horizontally. Placing it with an inclination will result in malfunction.



- Titles are displayed for discs conforming to CD-TEXT.
- After a few seconds, play starts from track No.1.

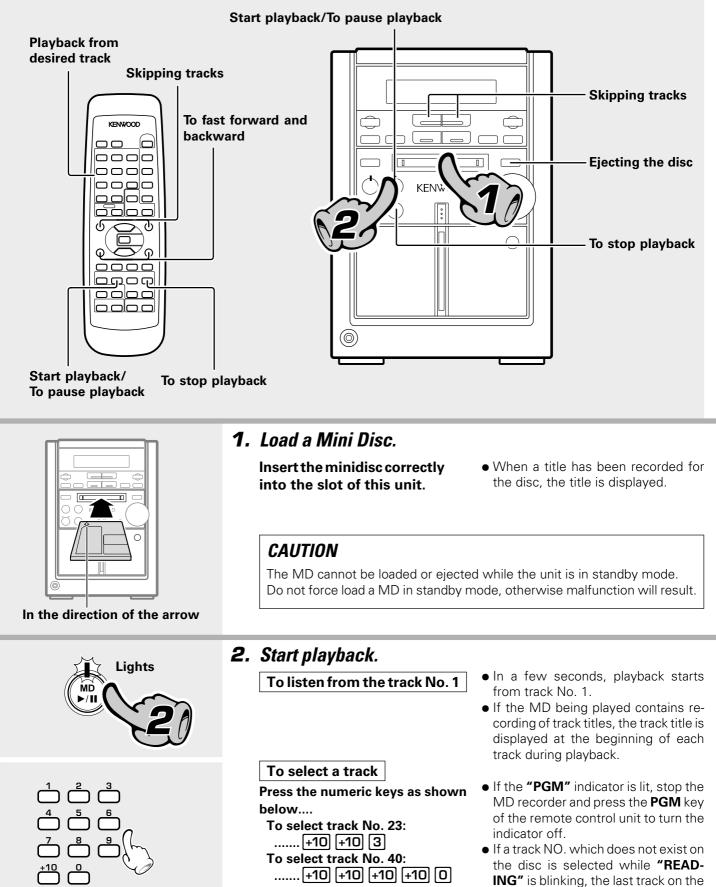
HM-381MD (En)

Playback of Mini Disc



When a disc is placed into the MD recorder in advance, the unit will be switched on automatically by pressing the MD ►/II key, and playback will start.

disc will be played.



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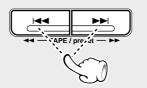
Let's put out some sound

HM-381MD (En)

Skipping tracks

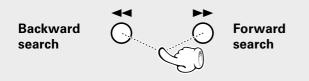
To skip backward

To skip forward



- The track in the direction of the key pressed is skipped, and the selected track will be played from the beginning.
- When the I key is pressed once during playback, the track being played will be played from the beginning.
- Operation also is possible with the keys I◄◄ and ►►I of the remote control unit.

To fast forward and backward (Remote control unit only)



• Playback starts from the position where the key is released.

To pause playback



• Each press pauses and plays the MD alternately.

To stop playback

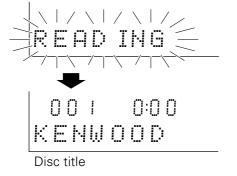


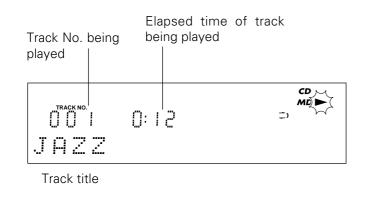
Ejecting the disc



• The minidisc comes out from the minidisc insertion slot.

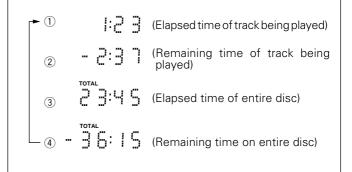
The display changes.





Time display on MD recorder (Remote control unit only)

Each press of the TIME key changes the displayed contents.



Disc recorded in monaural mode

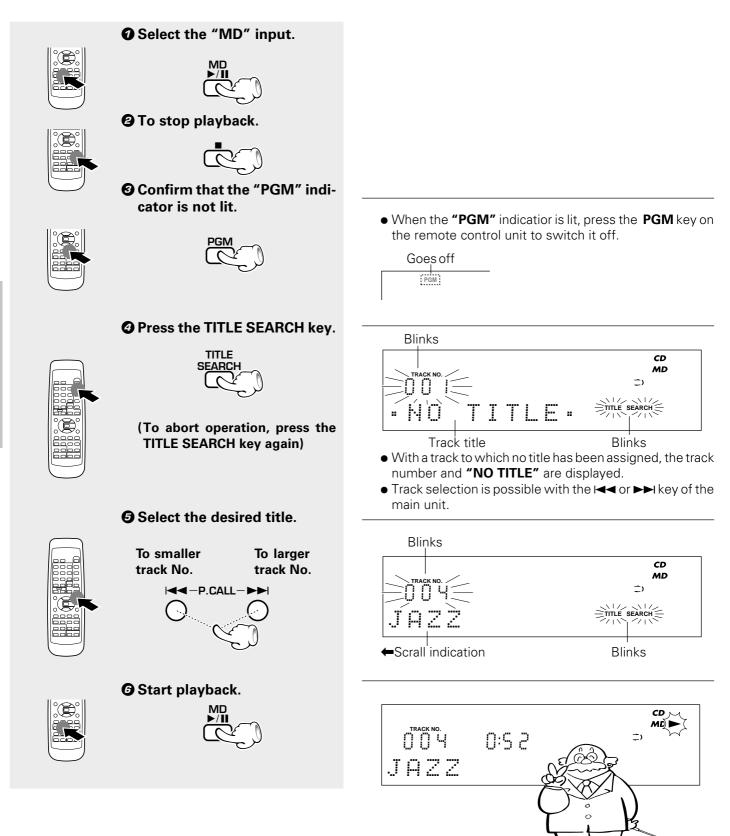
This unit is capable of playing a disc recorded in the monaural mode.

As the amount of data required to record information in the monaural mode is half the amount required in the stereo mode, the play (record) time of a disc recorded in the monaural mode is twice (max. 148 minutes) that of a disc recorded in the stereo mode.

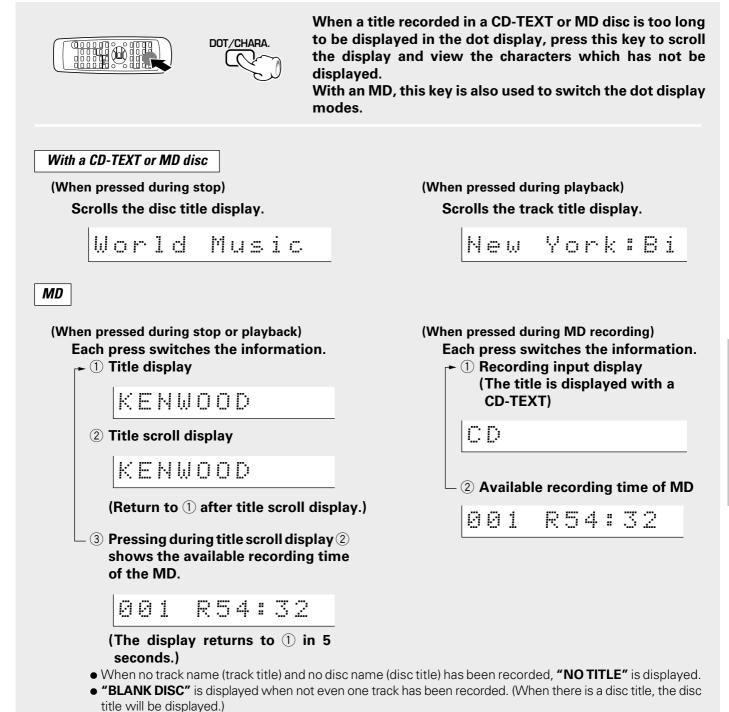
HM-381MD (En)

Searching a desired track by its title (TITLE SEARCH)

When the titles of the tracks recorded on a minidisc for recording are entered in advance, search by title is possible for the tracks to be played. -50



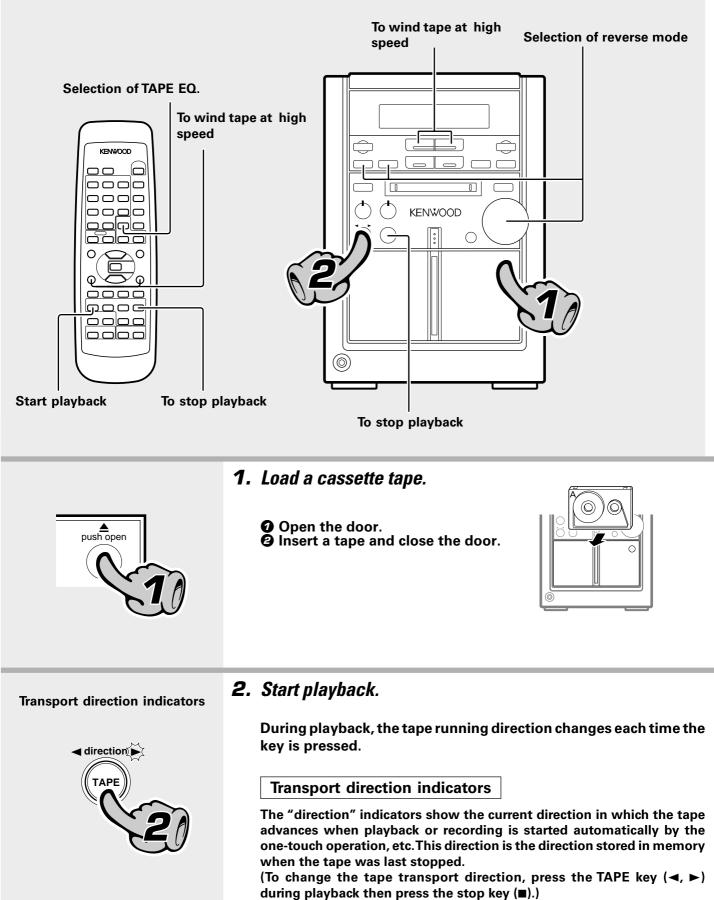
In regard to the DOT/ CHARA. key



Playback of tape



If you load a tape in the cassette deck in advance while the power is off. pressing the TAPE key turns power on automatically and starts the tape playback.

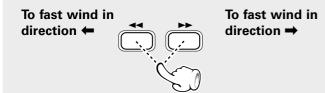


Let's put out some sound

HM-381MD (En)

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To wind tape at high speed



● Press the ■ key to stop fast winding.

Selection of TAPE equalizer (TAPE EQ.)

(Remote control unit only)

When playing a tape prerecorded with Noise Reduction system (such as the DOLBY NR) ON, be sure to set the "tape EQ." ON for playback.



• Select the "tape EQ." ON mode according to the recording condition of the tape.



- Normal (TYPE I), high (TYPE II), or metal (TYPE IV) tape selection is set automatically.
- Remove tape slack before loading.
- Close the door securely.

Displayed when the deck is loaded with a tape.



Reverse mode indication

To stop playback



• Do not take out the cassette tape until the tape transport has stopped completely.

Selection of reverse mode (Main unit only)



(Press the "set/demo" key while the "?" mark is blinking.)

Initial setup

VOLUME / multi control

Select.



Both sides are played back (recorded), and then the tape stops.

": ": (ONE-WAY) Only one side is played back (recorded), and then the tape stops.

"(⊂)": (ENDLESS) Both sides are played back endlessly. (The tape stops after recording onto both sides.)

Basic section

Set it.



Tape counter display (Remote control unit only)

Each press of the TIME key changes the displayed contents.

► ①	🗍 🗍 🗍 🗍 (Tape count)	
_ (2) _{AM}	용:닉 S (Time display)	

A tip for use of the tape counter

The tape counter is set to "0000" when a cassette tape is loaded.

By writing down the counter reading in case you want to interrupt recording (playback) in the middle of the tape, the memo will be helpful as a reference for locating the same position when continuing the recording (playback) the next time. The tape counter figure decrements during recording or playback of the back side (while the \triangleleft tape transport indicator is lit).

To set the tape counter to "0000", open the cassette holder once. Then the counter will be reset.

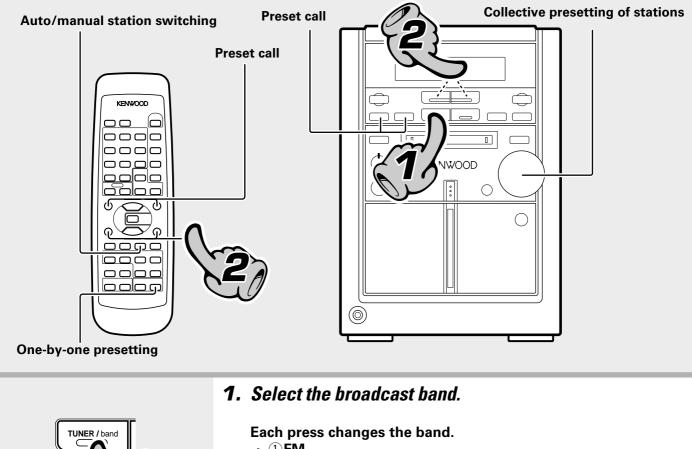
HM-381MD (En)

Receiving broadcast station

It is also possible to receive them by one-touch operations by storing up to 40 stations in the preset memory.



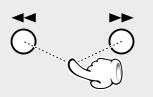
When the "TUNER band" key is pressed, the unit will automatically be switched on and reception status will be reached.



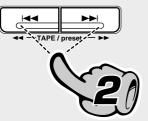


► (1) FM - (2) AM

Select a station



Select a station



2. Select a station.

When no stations have been memorized

: The next broadcasting station will be received Auto tuning automatically each time this key is pressed.

Manual tuning : Press the key repeatedly or hold it depressed until a station is received.

When stations have been memorized (preset call)

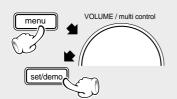
Every time the key ($| \blacktriangleleft \blacksquare$ or $\triangleright \triangleright |$) is pressed, the preset stations are switched over as follows.

Press $\rightarrow \mid$ for the order of $1 \rightarrow 2 \rightarrow 3 \dots 38 \rightarrow 39 \rightarrow 40 \rightarrow 1 \dots$ Press | 4 | 4 for the order of $40 \rightarrow 39 \rightarrow 38 \dots 3 \rightarrow 2 \rightarrow 1 \rightarrow 40 \dots$

Collective presetting of stations (auto preset)

O Receive a broadcast.

OSelect "A. MEMORY ?".



(Press the "set/demo" key while the "?" mark is blinking.)



- A maximum of 40 stations of the band presently being received will be preset.
- When there are many stations and the intended station has not been preset, please also use "One-by-one presetting (manual preset)".

One-by-one presetting (manual preset)

O Press the ENTER key during reception.

ENTER	MEMORY
(Proceed to step ② while "MEMORY" is lit.)	"MEMORY" lights (for approx. 5 sec.)

O Select one of the preset numbers from 1 to 40.

The numbers The numbers become become larger smaller

O Press the ENTER key again.

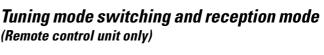


COMPLETE!

(Repeat steps **0**, **0**, **0** to preset other stations)

Basic section

• If several stations are preset under the same number, the previous memory is replaced with the latest memory contents.



Each press alternates the mode. ① "AUTO" lit (Auto tuning, stereo reception)

2 "AUTO" not lit (Manual tuning, monaural reception)

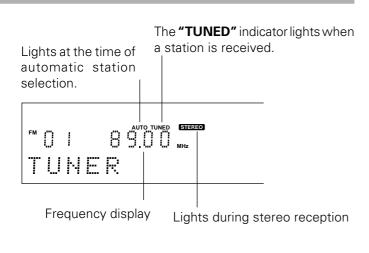
Use the manual tuning mode when reception is noisy due to weak reception. (In the manual mode, stereo broadcasts are received in monaural.)

• Normally, use the AUTO (Auto tuning, stereo reception) mode.

Tuner frequency display (Remote control unit only)						
Each press of the TIME key changes the displayed contents.						
	1 8	9.00м	, (Frequency display)			
L 2 AM		8:4 S	(Time display)			

Reception band indication

0 1 8 9.0 0 ... TUNER



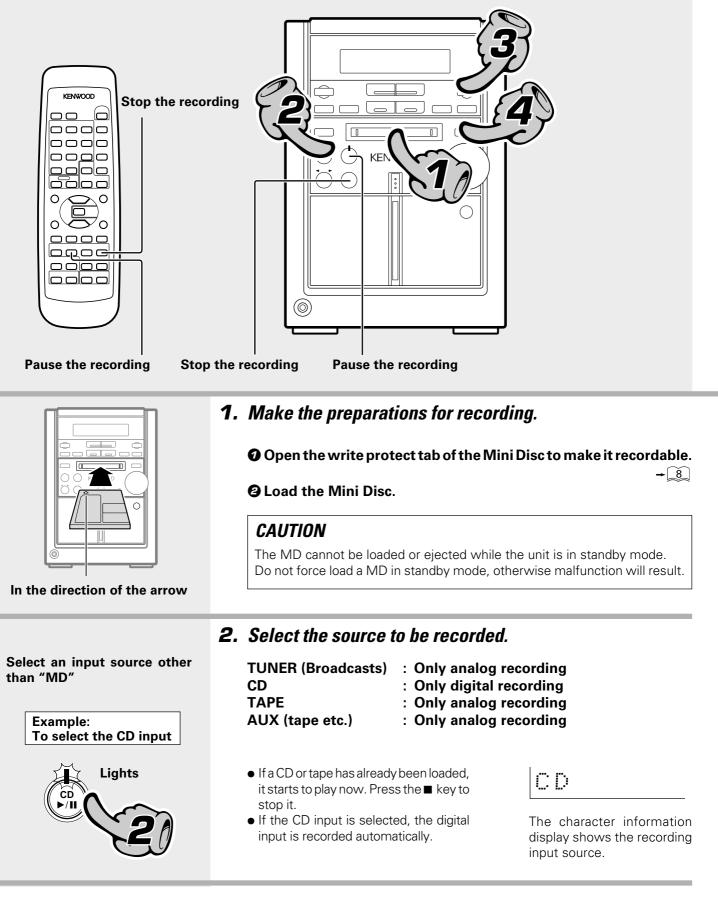
- When a key is held depressed, preset stations will be skipped at an interval of about 0.5 second.
- Preset stations can be called using the number keys on the remote control unit.

Recording on MD

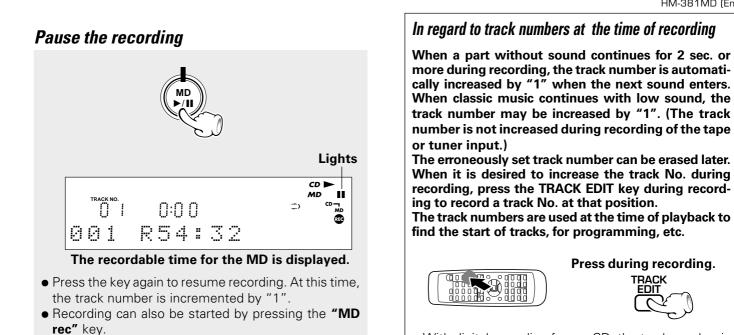
This unit cannot record audio in monaural mode.

HM-381MD (En)

MD recording is possible as "digital recording", where the digital signal of the CD is used as it is, and as "analog recording", where the analog signal of a broadcast etc. is converted to a digital signal.



HM-381MD (En)



- With digital recording from a CD, the track number is increased when the track changes.
 - At the time of recording from a CD, the track number may be incremented when CD playback starts. This occurs because of a signal included in the digital signal from the CD. Delete unwanted track numbers under reference to "TRACK ERASE or ALL ERASE". → 59

3. Start recording.

- **O** Press the "MD rec" key (the unit enters record-pause mode). **O** When the preparation is complete, press the "MD rec" key again.
- **O** Play the music source to be recorded.
- For recording from a CD, read "One-touch recording". **→**45



Stop the recording

MD rec

4. Remove the minidisc after the end of recording.

Always remove the minidisc after recording.

"WRITING" displayed during the minidisc ejection operation indicates that the data associated with recording or editing is being written on the disc. Do not apply vibration or shock to the unit while this message is displayed.

In regard to display messages

Recording is not possible when one of the following messages is displayed.

- "DISC FULL" : The minidisc is full.
- "PROTECTED" : The write protect tab is open. "PLAY ONLY" : The minidisc is only for playback.
- Erase unrequired tracks. → Close it.
- → Insert a recordable disc.

→ <u>59</u> → <u>71</u> •<u>8</u>

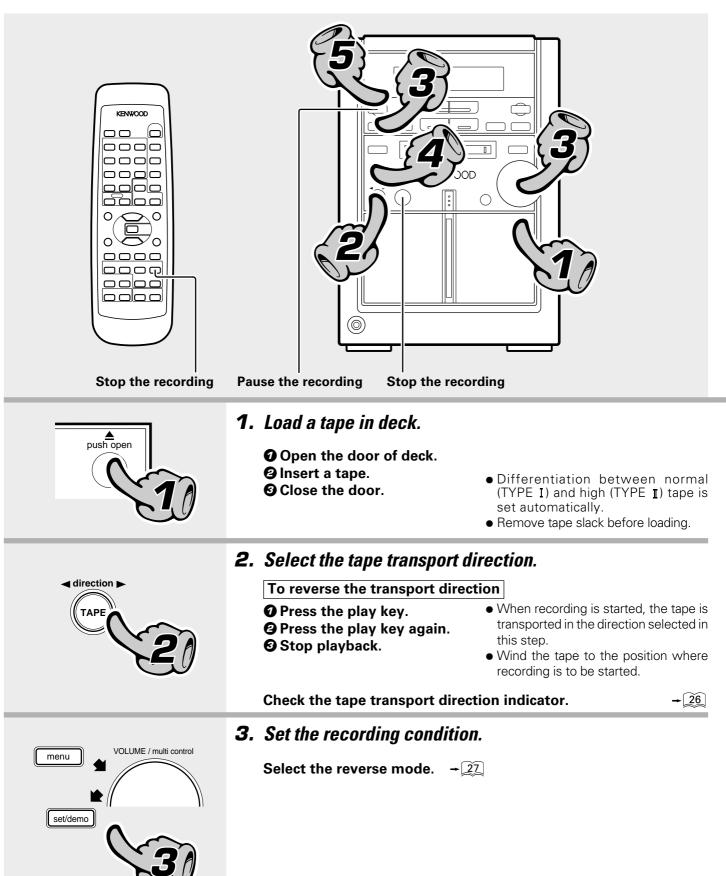
Let's recording

HM-381MD (En)

Recording on TAPE



Note that this cassette deck cannot record onto Metal tapes.



Basic section

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Pause the recording



• Press the "TAPE rec" key during recording. It stops after leaving a non-recorded blank of 4 seconds. (Press the key again to resume recording.)

Stop the recording

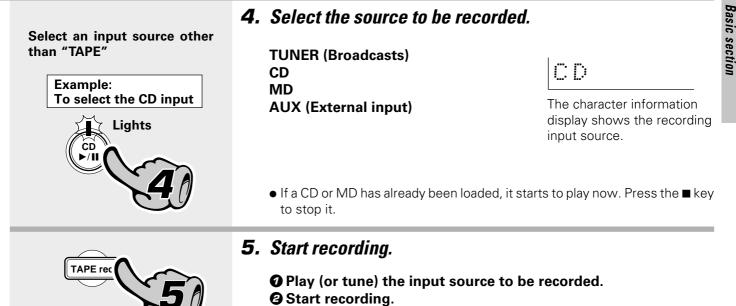


Points in CD recording

When recording CD tracks onto a tape, if you leave the cassette deck in record-pause mode beforehand, the cassette deck recording can be started at the CD starts to be played. (Synchro recording function)

O Put the CD player in pause mode. **O** Select the track to be recorded with the skip $(| \blacktriangleleft \triangleleft, \triangleright \triangleright |)$ keys. (The CD player pauses at the beginning of the selected track.)

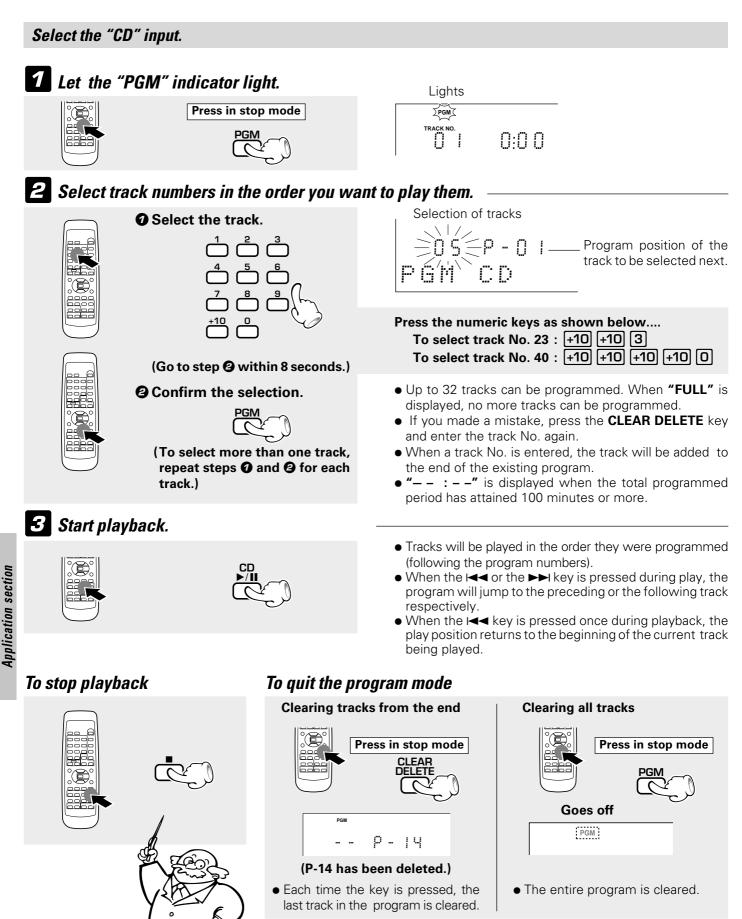
- **O** Put the cassette deck in Record-pause mode.
- (Press "TAPE rec" key twice) **O** Start playing the CD. (Synchro recording starts)
- Recording stops when the stop (
) key of the CD player is pressed.
- Synchronized recording from MD also is possible with the same procedure.



• Recording stops automatically when the tape side (s) to be recorded have been fully recorded.

Listening in the desired sequence (program playback)

Use the following procedure to program desired tracks in a desired order. (up to 32 tracks)



Repeated playback

You can repeatedly listen to a favorite track or disc.

cator is not lit.

O Select "REPEAT".

Select the "CD" input.

Setup for repeating a single track

(If the "PGM" indicator is lit, press the PGM key to turn it off.)

O Confirm that the "PGM" indi-

REPEAT

Setup for repeating all tracks in a disc



cator is not lit. (If the "PGM" indicator is lit, press the PGM key to turn it

O Confirm that the "PGM" indi-

off.)

OSelect "REPEAT ALL".



Setup for repeating selected tracks



✔ Program the track sequence according to steps 2 to 2 of "Listening in the desired sequence".

Select "REPEAT".



Confirm that this is not lit.



Each press switches the repeat mode.

↑ ① REPEAT
 ② REPEAT ALL
 ─ ③ Off.... Repeat deactivated

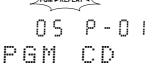


Confirm that this is not lit.

PGM

Each press switches the repeat mode.





• All selected tracks will be repeated.

Start playback





To stop repeated playback

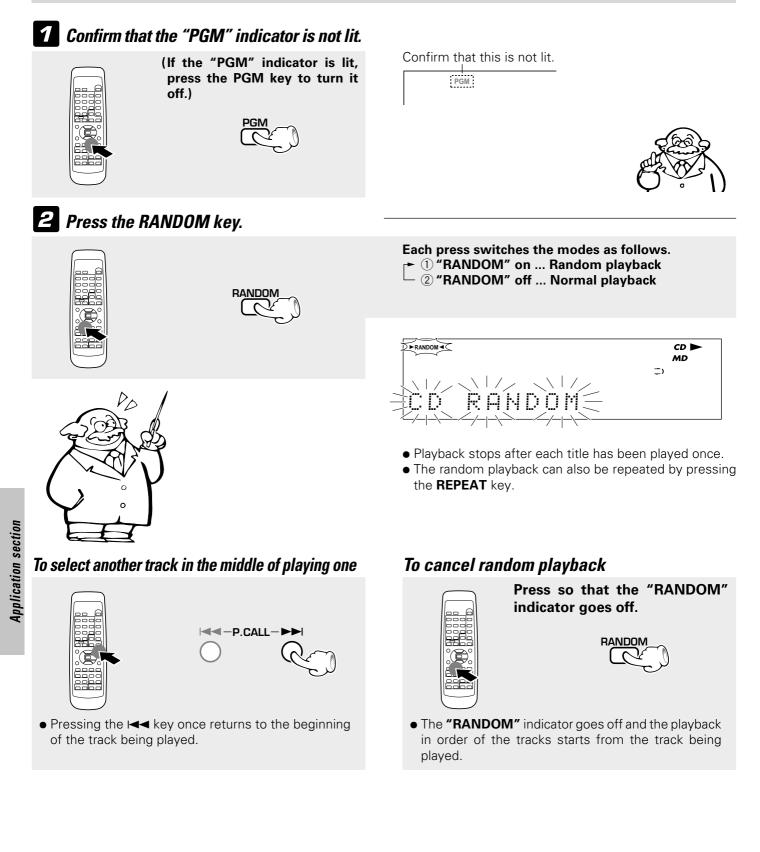
Press the REPEAT key repeatedly until the repeat mode is switched off.

• The **"REPEAT"** or **"REPEAL ALL"** indicator turns off and playback according to the current CD player mode starts.

Listening to an unexpected title sequence (random playback)

As the titles each time are selected randomly, the music can be enjoyed without getting tired of it.

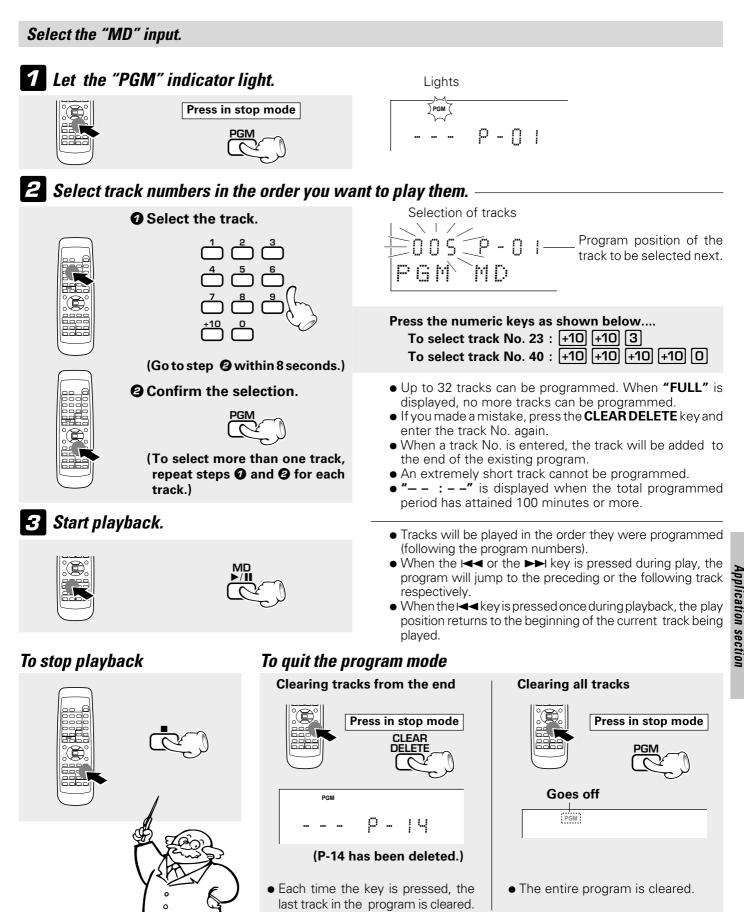
Select the "CD" input.



37

Listening in the desired sequence (program playback)

Use the following procedure to program desired tracks in a desired order. (up to 32 tracks)



Repeated playback

You can repeatedly listen to a favorite track or disc.

Select the "MD" input.

Setup for repeating all tracks in a disc



Confirm that the "PGM" indicator is not lit.

(If the "PGM" indicator is lit, press the PGM key to turn it off.)



REPEAT

OSelect "REPEAT ALL".

Setup for repeating selected tracks



Program the track sequence according to steps 2 to 2 of "Listening in the desired sequence". → 37

OSelect "REPEAT".



Confirm that this is not lit.



Each press switches the repeat mode. 1 REPEAT ALL 2 Off....Repeat deactivated

Lights



• All selected tracks will be repeated.

Start playback





To stop repeated playback

Press the REPEAT key repeatedly until the repeat mode is switched off.

• The **"REPEAT"** or **"REPEAL ALL"** indicator turns off and playback according to the current MD recorder mode starts. RDS is a system which transmits useful information (digital data) for FM broadcasts together with the broadcast signal. Tuners and receivers designed for RDS reception can extract the information from the broadcast signal for use with various functions such as automatic display of the station name.

This unit is equipped with the following functions utilizing RDS data :

PTY (Program Type Identification) Search : \rightarrow $\boxed{40}$ The tuner automatically searches for a station which is currently broadcasting a specified program type (genre).

PS (Program Service Name) Display : When an RDS broadcast is received, the station name is automatically displayed.

EON (Enhanced Other Network) : \rightarrow 42 When the information to be received is set in advance and any RDS station in the same network starts broadcasting of such information, the reception automatically will be switched to that station. The **"RDS"** indicator lights up when an RDS broadcast (signal) is received.

™ Ü |

TUNER

• Some functions may not be provided or be given different names depending on countries or areas.

Before using RDS

For reception of RDS stations, the auto presetting function must be used to preset the stations. With the auto presetting function, RDS stations are preset with priority. "NO DATA" will be flashed when a station is not preset by auto presetting.

HM-381MD (En)

R.D.S CON NEWS

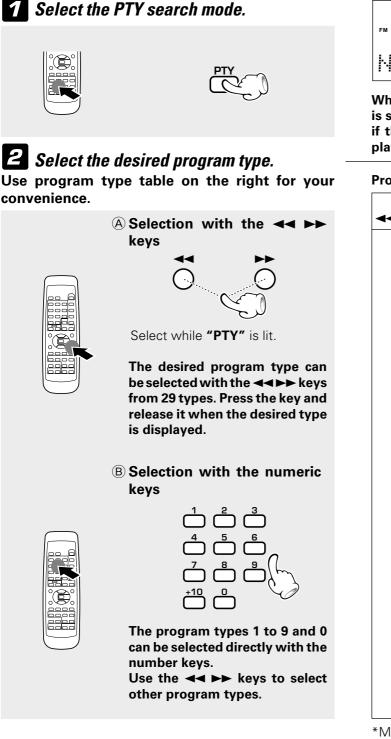
HM-381MD (En)

Searching for a desired program type (PTY search)

By specifying the type of program (genre) you want to listen to, the tuner automatically searches for a station which is currently broadcasting a program of the specified type.

Set the reception band to FM. Preset RDS stations with the auto preset function.

→ 29





When an RDS broadcast is received, the program type is shown on the display. If no PTY data is available, or if the station is not an RDS station, "NONE" is displayed.

Program type table

(A) ◄◄ ►► keys	₿	Program Type Name	Display
	1	Pop Music	POP M
	2	Rock Music	ROCK M
	3	*M.O.R. Music	M.O.R. M
Т	4	Light Classical	LIGHT M
	5	Serious Classical	CLASSICS
	6	Other Music	OTHER M
	7	News	NEWS
. ↓	8	Current Affairs	AFFAIRS
,	9	Information	INFO
UP	0	Sport	SPORT
		Education	EDUCATE
		Drama	DRAMA
		Culture	CULTURE
		Science	SCIENCE
		Varied	VARIED
		Weather	WEATHER
		Finance	FINANCE
		Children's programs	CHILDREN
		Social affairs	SOCIAL A
Religion		Religion	RELIGION
		Phone in	PHONE IN
		Travel	TRAVEL
		Leisure	LEISURE
		Jazz music	JAZZ
		Country music	COUNTRY
		National music	NATION M
		Oldies music	OLDIES
		Folk music	FOLK M
		Documentary	DOCUMENT

*M.O.R. Music (Middle of the Road Music)

Application section



3 Start the search.





- No sound is heard while "PTY" is blinking.
- If a program of the desired type cannot be found, "NO PROG" is displayed, then after several seconds the display returns to the original display.
- If a program of the desired type is found, that program is received and the program type name display changes temporarily to the station name display.

To change to a different program type :

Repeat steps 2, 2, 2.

When searching for a Rock Music broadcast

Display while the tuner is searching.

Blinks



Program type name display.

When a station is received. Goes off



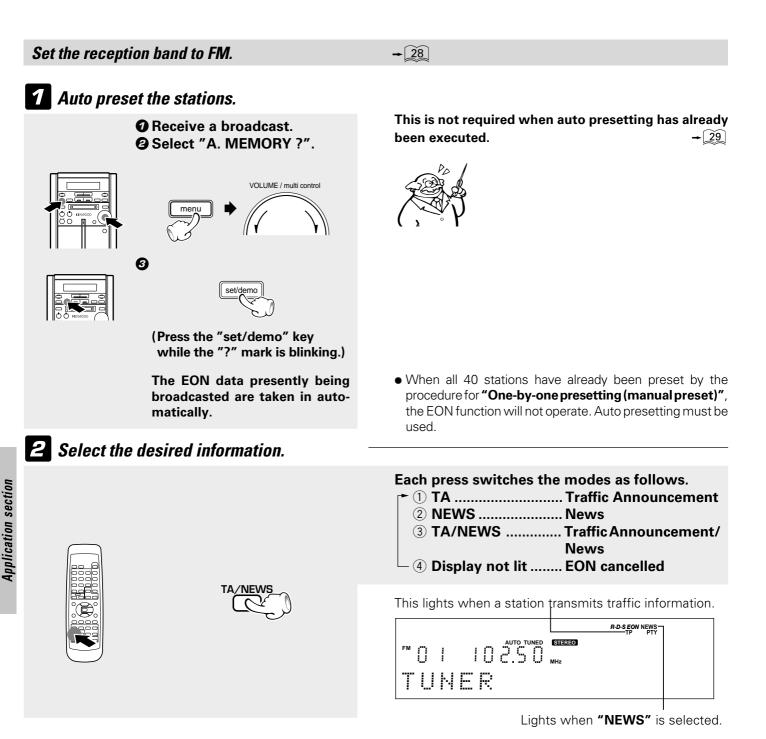
BBC 1

Station name display.

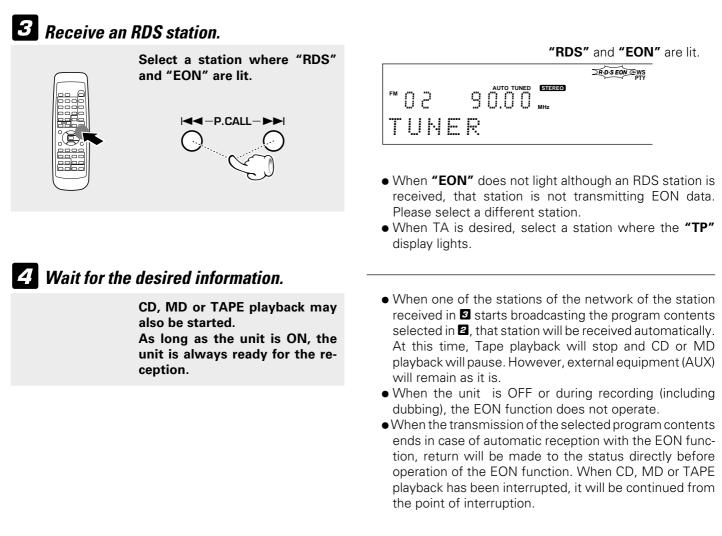
HM-381MD (En)

To be able to listen to the desired information at any time (EON)

By using the EON function, which manages the information of other stations, listening to desired information like traffic information or news etc. can be reserved even when it is not being transmitted at the present. When listening to a station with the "EON" display lit and another station of the same network starts to broadcast an information program for which a reservation has been made, then that station will be selected automatically. When the desired information program ends, return is made to the original program.



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In case of waiting for information with an RDS station without EON function

When there is no "EON" display with the operations of steps **2** and **2** and the desired information is selected in advance, waiting for the desired information will be done only with the presently received RDS station.

In regard to TP (Traffic Program) indicator

When the "TP" indicator is lit, this indicates that the station or another station in the same network is broadcasting traffic information. Even without an EON reservation, traffic information can be heard from the station when "TP" indicator is lit for the presently received station.

44 Convenient Recording Methods

Selection of the Recording Type

This unit provides the following recording features in addition to normal recording. Select the appropriate method according to the purpose of recording.

To record CD with a simplified method

One-touch recording ($CD \rightarrow MD/CD \rightarrow TAPE$)



One-touch recording of an entire CD onto an MD or tape.

Metal tapes.

Note that this cassette deck cannot record onto

One-touch recording (single-track recording)

One-touch recording of the CD track being played onto an MD or tape.

(This is convenient for recording of desired tracks from a disc being heard for the first time.)

• One-touch recording from an MD to a tape is not possible.

To record CD simultaneously onto an MD and tape

Twin recording onto MD and tape (TWIN REC) ($CD \rightarrow MD$, TAPE)

TWIN REC (all-track twin recording)



Simultaneous recording of an entire CD onto an MD and tape.

TWIN REC (single-track twin recording)

Simultaneous recording of the CD track being played onto an MD and tape.

(This is convenient for recording of desired tracks from a disc being heard for the first time.)

To record desired CD or MD tracks by reordering them

Program recording (CD→ MD/ CD→ TAPE / MD→ TAPE)

Program recordin<u>g</u>



(Convenient for recording only the desired CD or MD tracks in the desired order.)

Program recording can be used in combination with the "One-touch recording" or "Twin recording onto MD and tape (TWIN REC)".



With recording onto tape, the track will be interrupted for the part of the guide tape at the tape reversal, where recording is not possible. Please use single-side recording if this is to be avoided.

→ 45

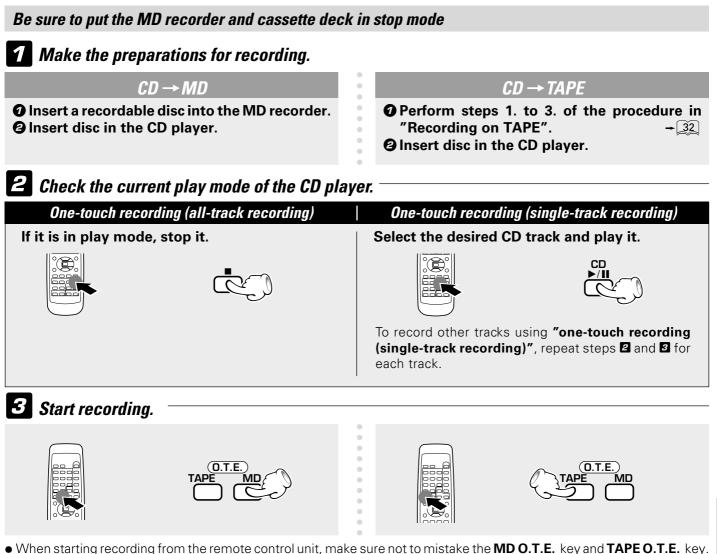
→ 46



 \rightarrow $47 \rightarrow$ 48

One-touch recording ($CD \rightarrow MD / CD \rightarrow TAPE$)

The one-touch recording can record all tracks in a CD with a one-touch operation (all-track recording). It can also record the current CD track being played from the beginning (single-track recording).



- When the MD O.T.E. or TAPE O.T.E. key is pressed for "One-touch recording (single-track recording)", the CD track being played is replayed from the beginning and recording start at the same time.
- To perform operation on the main unit, see step **I** in the procedure in **"Twin recording onto MD and tape (TWIN REC)**".

46

To interrupt a recording

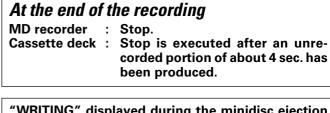




(Recording and playback will be stopped.)



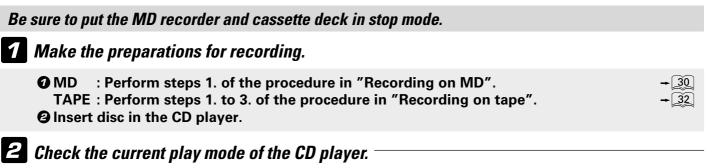
Always remove the disc after recording.

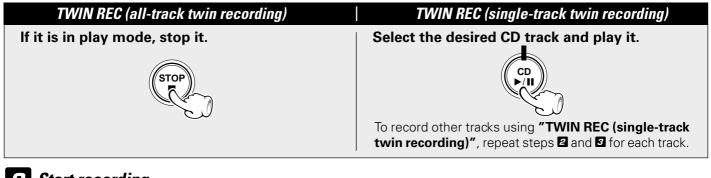


"WRITING" displayed during the minidisc ejection operation indicates that the data associated with recording or editing is being written on the disc. Do not apply vibration or shock to the unit while this message is displayed.

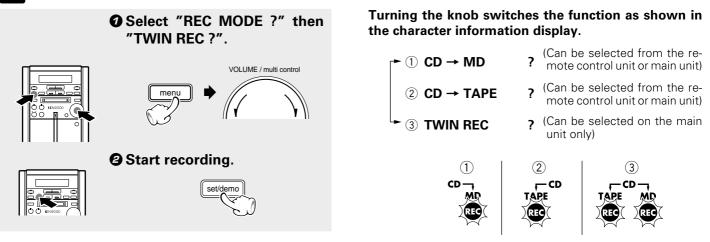
Twin recording onto MD and tape (TWIN REC) (Main unit only)

All the tracks on a CD can be recorded simultaneously onto an MD and tape. (All-track twin recording) The current track can be recorded from the beginning simultaneously onto an MD and tape. (singletrack twin recording)





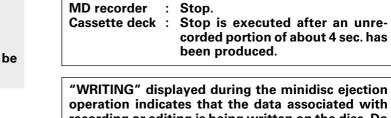
3 Start recording.



• If the "set/demo" key is pressed when the "TWIN REC (single-track twin recording)" mode is set, the pickup returns to the beginning of the track that is currently playing, the "REC" indicator lights and recording starts.

To interrupt a recording





MD recorder

At the end of the recording

:



Application section

Always remove the disc after recording.

operation indicates that the data associated with recording or editing is being written on the disc. Do not apply vibration or shock to the unit while this message is displayed.

Program recording $(CD \rightarrow MD/CD \rightarrow TAPE)$

Desired CD tracks can be programmed in the desired sequence and recorded onto an MD or tape.

Recording preparation is required. \rightarrow 30 \rightarrow 32 (Be sure to put the MD recorder and cassette deck in stop mode.)

1 Program the desired sequence of CD tracks.

 $CD \rightarrow MD$

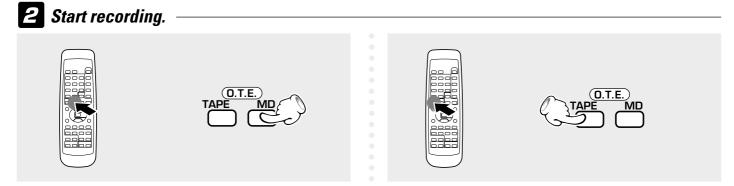
Perform steps **2** and **2** of the procedure in "Listening in the desired sequence (Program playback)". $\rightarrow 34$

Perform steps **2** and **2** of the procedure in "Listening in the desired sequence (Program playback)". $\rightarrow 34$

 $CD \rightarrow TAPE$

• When the **PGM** key is pressed to cancel the edited contents, the entire editing contents will be erased.

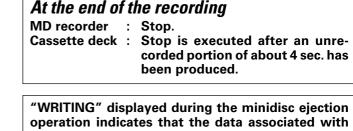
• Tracks programmed beyond the available MD or tape recording time will be interrupted in the middle.



- Recording of the programmed tracks in the programmed order starts.
- When starting recording from the remote control unit, make sure not to mistake the **MD O.T.E.** key and **TAPE O.T.E.** key.
- To perform operation on the main unit, see step 2 in the procedure in "Twin recording onto MD and tape (TWIN REC)".

→ 46





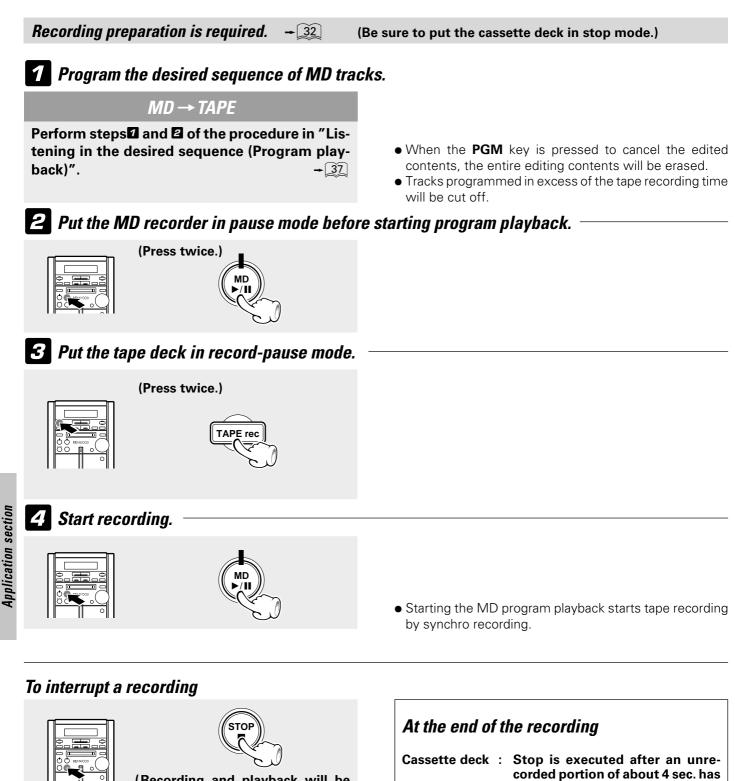
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"WRITING" displayed during the minidisc ejection operation indicates that the data associated with recording or editing is being written on the disc. Do not apply vibration or shock to the unit while this message is displayed.

HM-381MD (En)

Program recording (MD → TAPE)

Desired MD tracks can be programmed in the desired sequence and recorded onto a tape.



(Recording and playback will be stopped.)

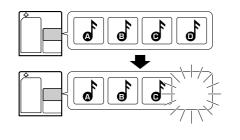
been produced.

MD Edit Functions

HM-381MD (En)

Selecting the editing function type

When a commercially available Mini Disc fabri-Function Limitations because of the MD Standard cated for user recording is used, various editing Some of the functions are limited because of the operations can be applied after recording. Note MD standard. Please check this before assuming a that editing is not possible with commercially malfunction. → <u>71</u> available prerecorded Mini Disc software de-For editing, set the write protect tab of the mini disc signed for playback only. to "Write enable" side. → 8 Title input is possible simply by selecting one char-Assigning a Title to a Disc or a Track → 50 acter after another from the characters shown on the display. As the entered title is compatible between models, it will be displayed also when the disc is set into a different MD recorder (player). Changing or deleting a title →<u>52</u> (The title compatibility is limited partly according to the character types which can be displayed, the number of characters, etc.) Reordering tracks by moving them Dividing a track, combining two tracks Moving several tracks at a time (QUICK MOVE) **TRACK DIVIDE** → 57 <u>53</u> TRACK COMBINE → 58 Moving a single track (TRACK MOVE) 55 Dividing a track into two ß A O Combining two tracks into one Ø Æ Erasing track(s) Erasing all tracks on a disc (ALL ERASE) → 59 Erasing a single track (TRACK ERASE) → 59



In regard to display scrolling

When the character information for the titles of mini discs or titles is too long, it cannot be displayed all at once. In such a case, the characters on the display scroll from the right to the left and the rest of the information can be seen. This is called scrolling.



Scrolling image

KENWOOD

MINIDISC

Displayed area (All cannot be displayed.)

KENWOOD

MINIDISC

RECORDER

MINIDISC

RECORDER

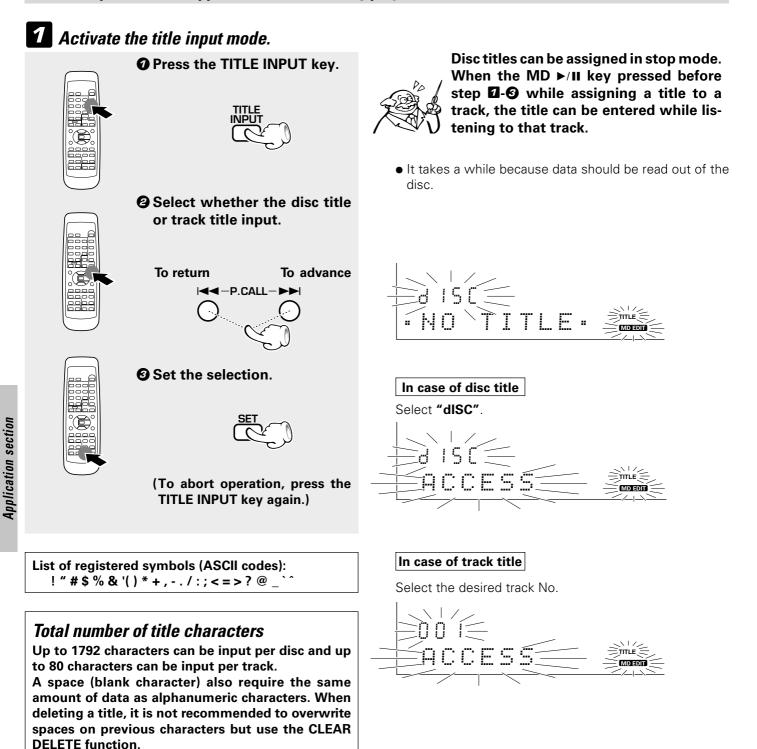
Application section

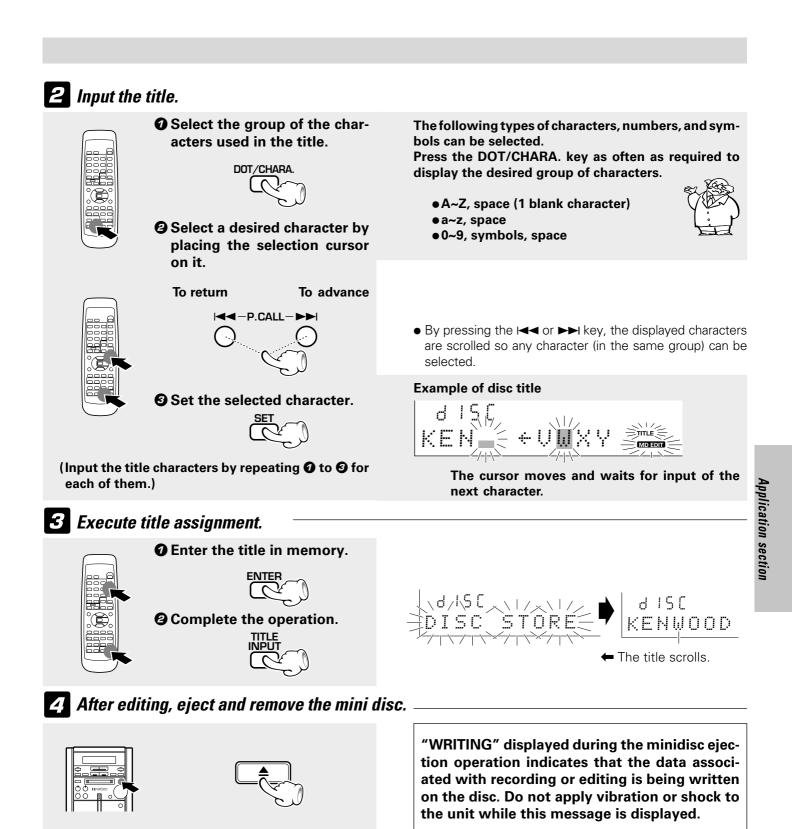
Assigning a title to a disc or track

When titles are assigned to a disc and its tracks, the titles cannot only be displayed during playback but title search (searching a track by the title) is also made possible. The assigned titles can be changed or deleted with the same procedure.

The MD operates on the basis of the information read from the disk into memory. Always remove the minidisc after title input or editing.

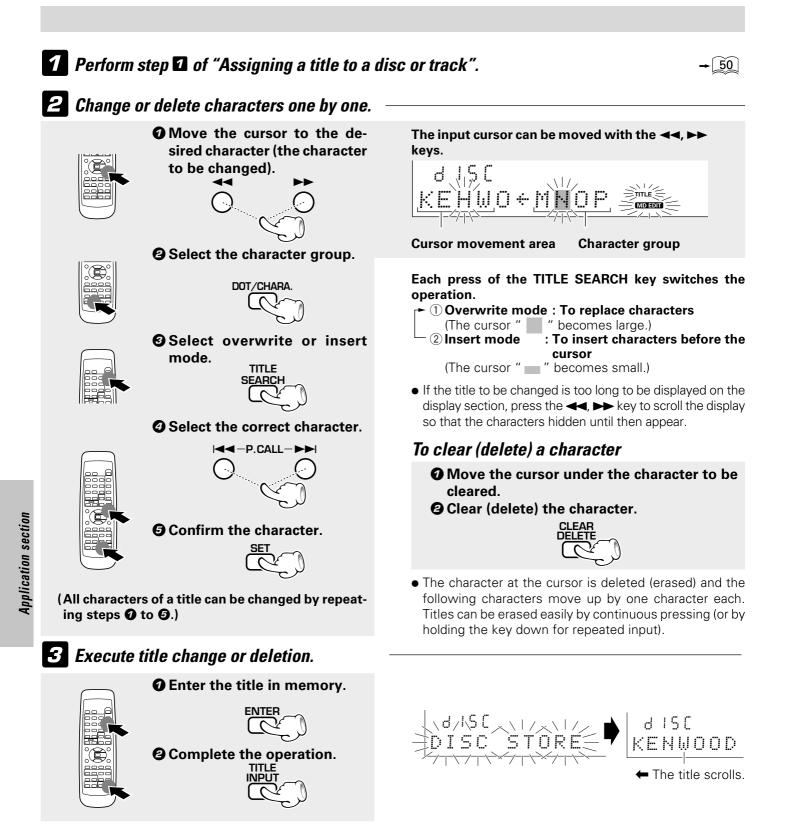
Execute operation in stopped condition or during playback.





Changing or deleting a title

The MD operates on the basis of the information read from the disk into memory. Always remove the minidisc after title input or editing.

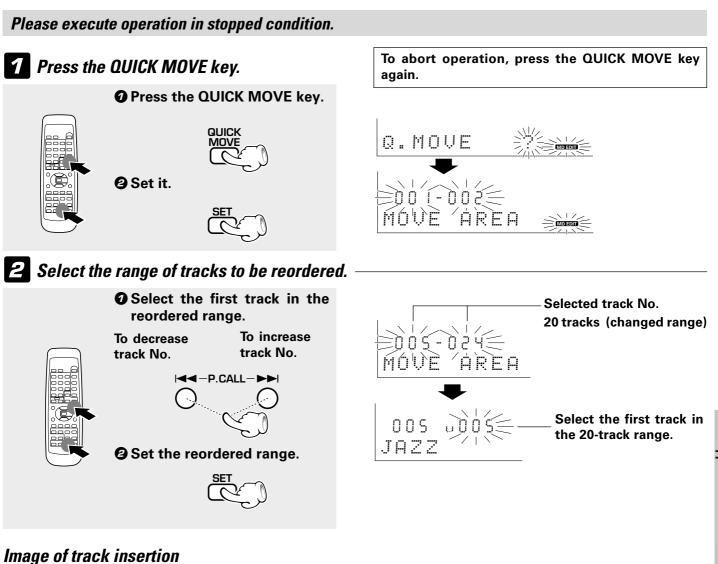


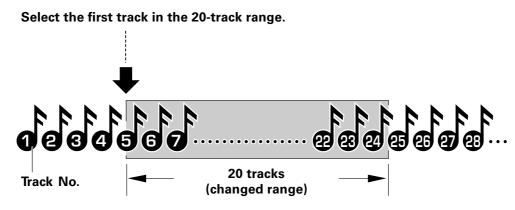
Moving several tracks at a time (QUICK MOVE)

Use the following procedure to change the current order of tracks by selecting a desired order and moving the tracks together.

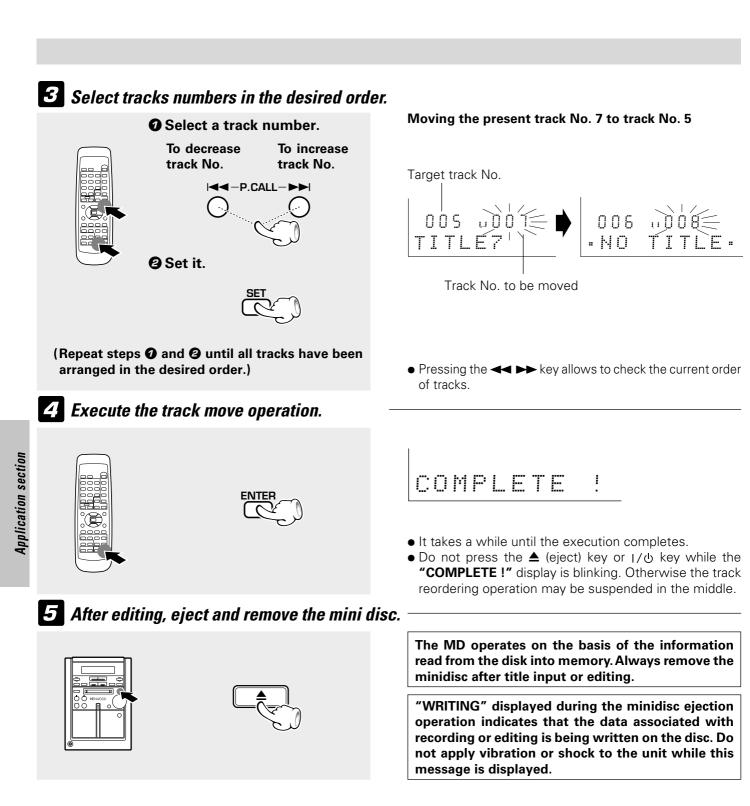
20 continuous tracks within the specified range can be reordered at a time.

Perform the operations in the following procedure while the display is blinking.





The procedure is continued on the next page.



Perform the operations in the following procedure

while the display is blinking.

Application section

Moving a single track (TRACK MOVE)

This procedure shows you how to select and move (insert) a track to the track number you desire. The surrounding tracks are renumbered automatically.

Repeating this procedure lets you arrange the tracks in the order you desire.

Please execute operation in stopped condition. Select "MOVE ?". **O** Select "MOVE ?". Each press switches the operation. ► ① MOVE ? 2 COMBINE ? ③ ALL ERASE ? - ④ Editing cancelled **Ø** Set it. MOVE Select the track to be moved. O Select a track number. To decrease To increase CD track No. track No. MD Set it. Track to be moved Image of track moving Selected destination Track to be moved Selected destination **`@@@@@**@... When moved to a position after current position When moved to a po-A B C C C C C ... Inserted immediately after destination track sition before current position DABGEGG. Inserted immediately before des-tination track

The procedure is continued on the next page.



4 Execute the track move operation.

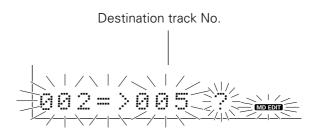
3 Select the moving destination track.

To decrease track No.

O Select a track number.

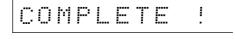
To increase

track No.









5 After editing, eject and remove the mini disc.



The MD operates on the basis of the information read from the disk into memory. Always remove the minidisc after title input or editing.

"WRITING" displayed during the minidisc ejection operation indicates that the data associated with recording or editing is being written on the disc. Do not apply vibration or shock to the unit while this message is displayed.

Dividing a track (TRACK DIVIDE)

Use the following procedure to divide a track into two by inserting a track number in its middle. For example, by inserting an additional track number before the passage you are specially fond of, it is easy to skip to there when you play the disc later. Note that the track numbers of the tracks located after the divided track are automatically incremented.

Always remove the minidisc after title input or editing.

"WRITING" displayed during the minidisc ejection operation indicates that the data associated with recording or editing is being written on the disc. Do not apply vibration or shock to the unit while this message is displayed.

Perform the operations in the following procedure while the display is blinking. Play the track to be divided. • This operation is also possible during pause. Press the TRACK EDIT key at the desired position. **O** Select "DIVIDE ?". Each press switches the operation. (1) DIVIDE ? 2 COMBINE ? ③ ERASE ? (4) Editing cancelled (Pressing the key during playback initiates pause.) 0:12 **Ø** Set it. DIVIDE 002<>003 **3** Execute the track divide operation. Should be approx. 2 sec. or longer.

Execute the track divide operation.
Should be approx. 2 sec. or longer.
Image: Should be approx. 3 sec. or longer.
Image:

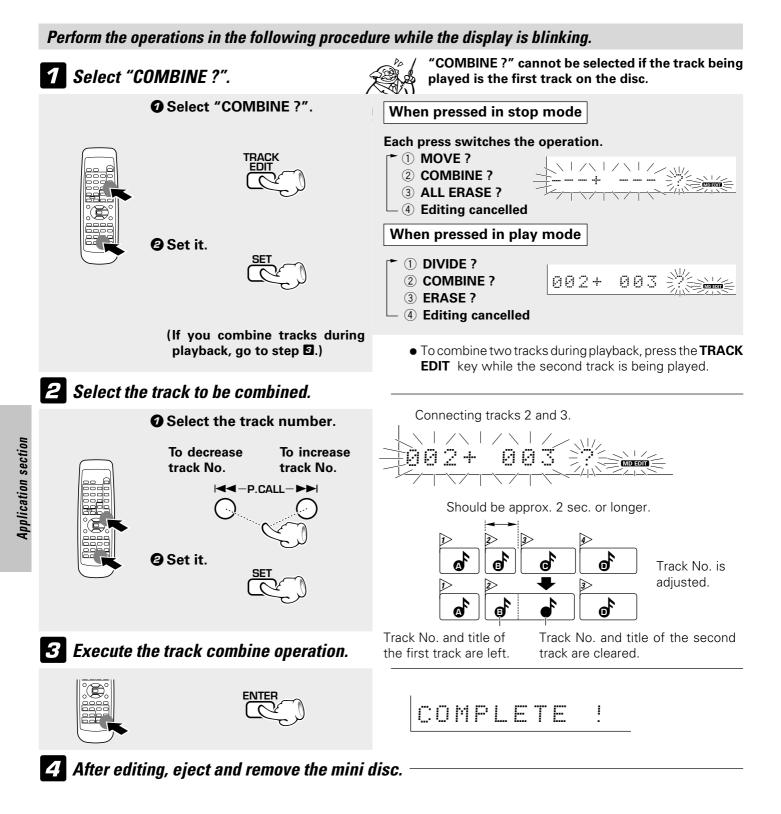
After editing, eject and remove the mini disc.

Combining two tracks (TRACK COMBINE)

Use the following procedure to combine two tracks into one by deleting a track number. This operation allows to connect several tracks or a piece of music divided into several parts. After this operation, the track numbers of tracks located after the combined tracks are decreased automatically.

Always remove the minidisc after title input or editing.

"WRITING" displayed during the minidisc ejection operation indicates that the data associated with recording or editing is being written on the disc. Do not apply vibration or shock to the unit while this message is displayed.



Application section

Erasing a single track (TRACK ERASE) or erasing all tracks on a disc (ALL ERASE)

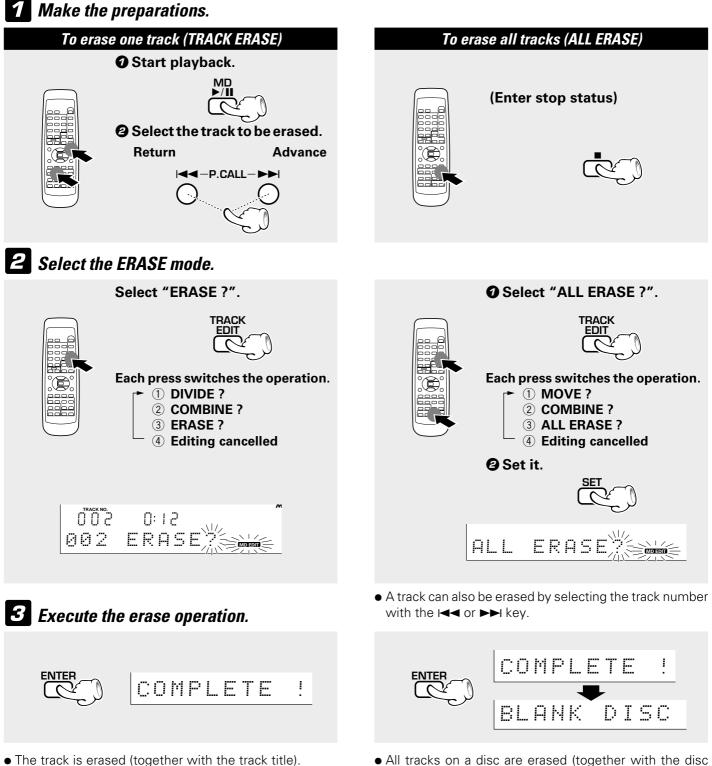
TRACK ERASE

During playback, it is possible to erase only the track being played. The track numbers of the tracks after the erased track will be adjusted. Be careful in using this operation because a track cannot be recovered once it has been erased.

ALL ERASE

During stop, all tracks can be erased. Be careful in using this operation because the tracks cannot be recovered once the entire minidisc has been erased.

Perform the operations in the following procedure while the display is blinking.



• All tracks on a disc are erased (together with the disc title).

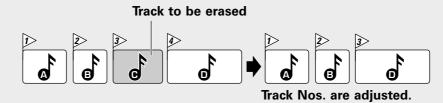
The procedure is continued on the next page.

The MD operates on the basis of the information read from the disk into memory. Always remove the minidisc after title input or editing.

"WRITING" displayed during the minidisc ejection operation indicates that the data associated with recording or editing is being written on the disc. Do not apply vibration or shock to the unit while this message is displayed.

4 After editing, eject and remove the mini disc.

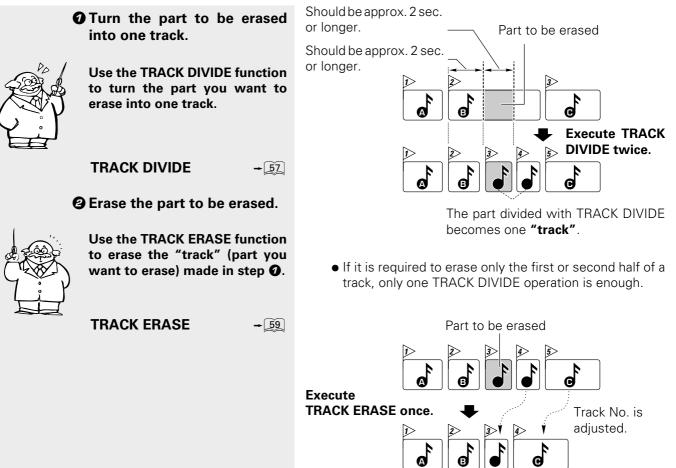
Image of erasing one track (TRACK ERASE)



Erasing a part of a track

- 1 Turn the part to be erased into one track by using the TRACK DIVIDE function.
- 2 Erase it by using the TRACK ERASE function.

Use the following procedure to erase the desired part of a track.



The space left after erasing is filled by subsequent tracks which move along.

60

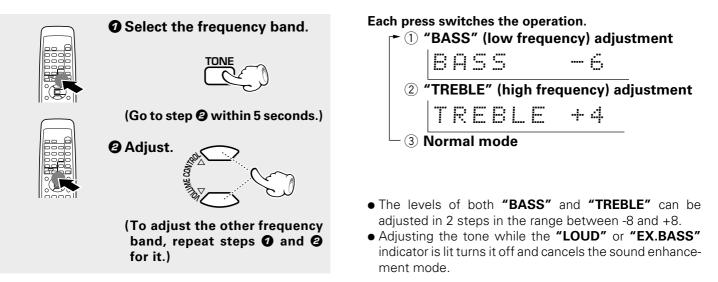
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Tone adjustment

61

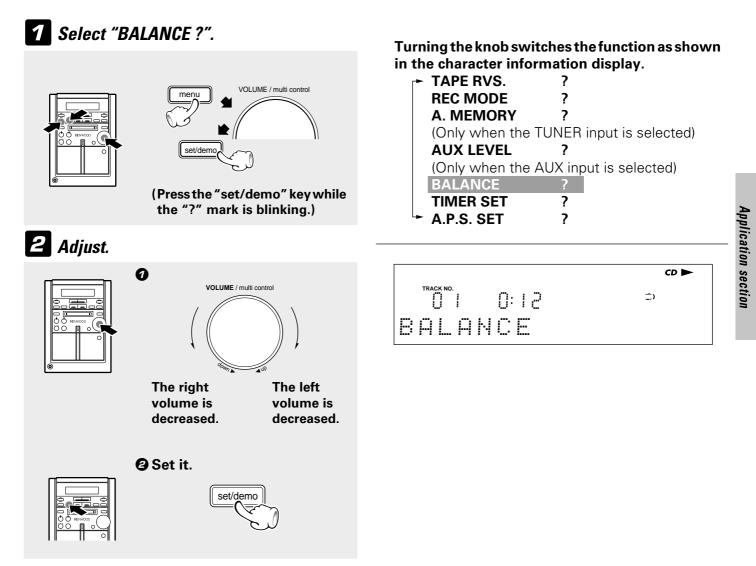
Tone adjustment

The lowest and highest frequency bands can be adjusted independently. (Remote control only)



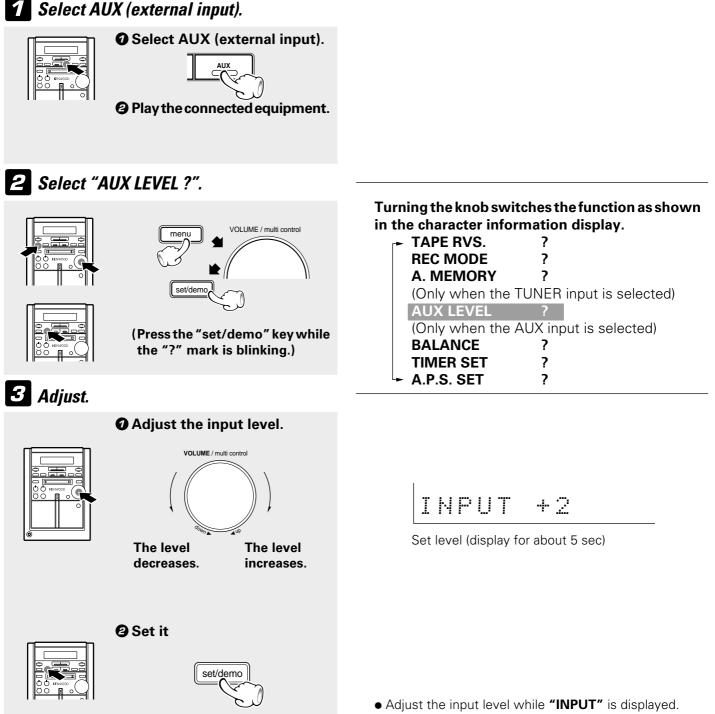
Balance adjustment (Adjust for the desired left / right balance.)

Adjusts the balance of left and right volume. (Main unit operation only)



Adjusting the AUX Input Level

This adjusts the input level for the external equipment (video deck etc.) connected to the AUX input terminal. Adjust so that the volume of the AUX input source sounds at an equivalent level to the CD or MD. (Main unit operation only)

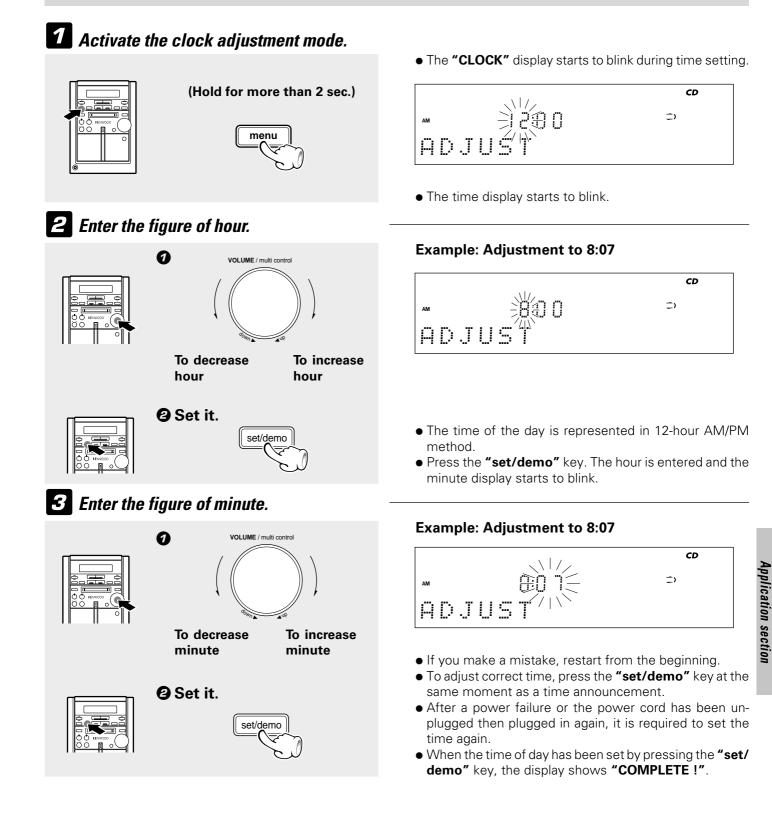


• Adjustment is possible over the range from -6 to +3.

Application section

Clock adjustment

HM-381MD (En)



Operate easy To use Timer (O.T.T.)

Playback of the selected input source starts at the specified time, and the unit is switched off after one hour. This timer operates only once directly after setting.

Timer playback, timer recording (PROG.1, PROG.2)

With each of the two timer programs, a selected source can be played (or radio broadcast can be recorded) in the previously set time period.

AI timer playback (PROG.1, PROG.2)

The volume increases gradually after start of timer playback.

Sleep timer (SLEEP)

The unit is turned OFF automatically after the specified period has elapsed.

Connect the related equipment under reference to "System connection".

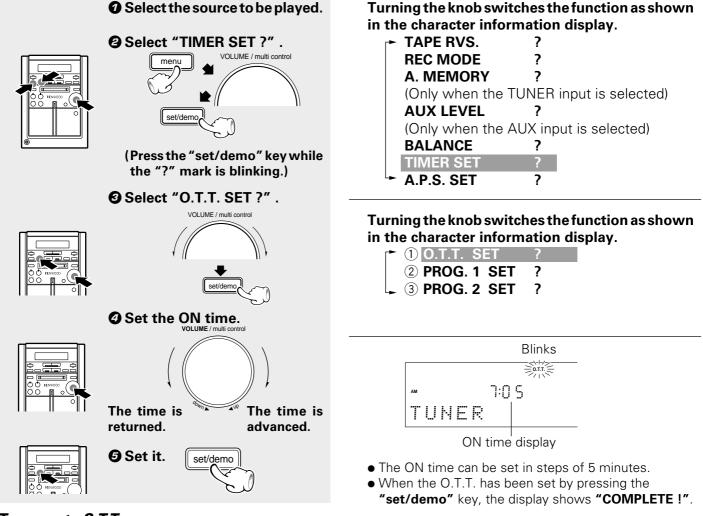
→ 10

HM-381MD (En)

Setting the O.T.T.

Timer playback is possible simply by setting the time.

The source selected last before the unit was switched off will be played. One hour after start of timer playback, the unit will be switched off automatically.



To execute O.T.T.

Application section

Perform steps **2** and **2** in the procedure in "Activating or deactivating the O.T.T. or program timer execution". $\rightarrow \boxed{67}$

65

Setting the Program Timer

Two 24-hour timer systems (PROG.1, PROG.2) (which can be used every day) are available. In each of PROG.1 and PROG.2, the timer data including the operating period and played contents can be set and selected to be activated or not as required.

Make preparations for the play (recording).

To listen to CD Insert a disc. (Program playback is not possible.)	To listen to MD Load a disc. (Program playback is not possible.)	To listen to tape Set a tape into.
To listen to radioThe station should be preset priorto the above. \rightarrow 29	Playing the auxiliary input source Make timer setting of the compo- nent connected to the AUX input jacks.	For recordingMake preparations for recording.MD→ 30TAPE→ 32

- Timer reservation is possible for the two types PROG.1 and PROG. 2 at the same time.
- Please make reservations with an interval of at least one minute, so that the operation times of PROG. 1 and PROG. 2 do not overlap.





• When the power is switched on by the timer for recording, MUTE automatically becomes ON.

3 Select a program No.



VOLUME / multi contro men set/dem

OSelect "TIMER SET ?"



Select "PROG. 1 SET ?" or "PROG. 2 SET ?". OLUME / multi cont





•	Set it.
	(Press during display of the pro- gram contents.)

Turning the knob switches the function as shown in the character information display.

r► TAPE RVS.	?
REC MODE	?
A. MEMORY	?
(Only when the Tl	JNER input is selected)
AUX LEVEL	?
(Only when the Al	UX input is selected)
BALANCE	?
TIMER SET	?
► A.P.S. SET	?

Turning the knob switches the function as shown in the character information display.

r► ① O.T.T. SET	?	
2 PROG. 1 SET	?	
→ ③ PROG. 2 SET	?	

- The selected program No. lights.
- If a program No. under which a timer program has already been reserved, it is replaced by the new timer program.
- The previously set contents are displayed. (If you do not want to change them, simply press the "set/demo" key.)

Adjust the clock before setting the timer.

above).

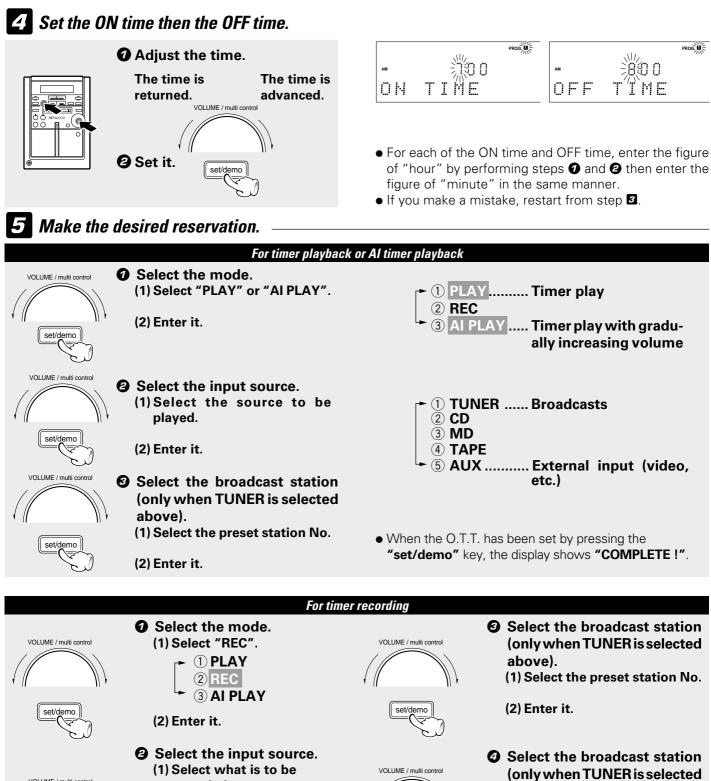
(1) Select.

(2) Enter it.

TAPE REC

Timer operation

HM-381MD (En)



VOLUME / multi control volume

• When the O.T.T. has been set by pressing the "set/demo" key, the display shows "COMPLETE !".

To execute program timer

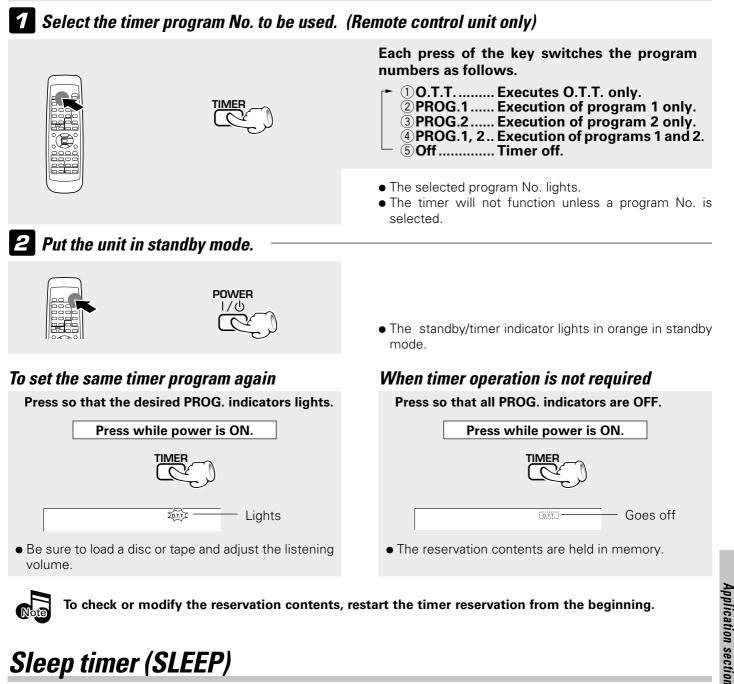
Perform steps **2** and **2** in the procedure in "Activating or deactivating the O.T.T. or program timer execution". $\rightarrow \boxed{67}$

Application section

Adjust the clock before setting the timer. Timer operation

67

Activating or deactivating the O.T.T. or program timer execution



Sleep timer (SLEEP)

Set the number of minutes after which the unit is to be turned OFF.



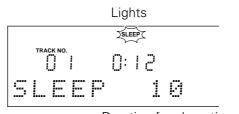


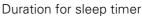
To cancel

Turn the unit OFF or press the SLEEP key until the sleep time is cancelled.

- The unit is turned OFF automatically after the set time has elapsed.
- Each press increases the timer period by 10 minutes. The sleep timer can be set up to 90 minutes.

$10 \rightarrow 20 \rightarrow 30...70 \rightarrow 80 \rightarrow 90 \rightarrow Cancel \rightarrow 10 \rightarrow 20...$





Cotton swab Capstan Cotton swab Capstan Head Pinch roller Tape guides

Cleaning the heads and peripheral components

For maintaining the best condition of the deck and for longer service life, always keep the heads (recording / playback / erase), capstan and pinch roller clean. To clean them, perform the following:

- 1.Open the cassette holder.
- 2.Using a cotton swab dipped in alcohol, clean the head (recording / playback / erase), capstan and pinch roller carefully.

Demagnetizing the head

When the recording / playback head is magnetized, the sound quality will deteriorate. In such a case, demagnetize the head using a commercially available demagnetizer (head eraser).

Note

There are precisely aligned parts around the heads, including the tape guides. When cleaning, pay special attention so as not to apply shock to them.

Maintenance of the Set

When the front panel, the case, etc. becomes dirty, wipe with a soft, dry cloth. Do not use thinner, alcohol, etc., as these can cause discoloration.

In regard to contact cleaners

Do not use contact cleaners because it could cause a malfunction. Be specially careful not to use contact cleaners containing oil, for they may deform the plastic component.

Reference

Caution on condensation

Condensation (of dew) may occur inside the unit when there is a great difference in temperature between this unit and the outside.

This unit may not function properly if condensation occurs. In this case, leave the unit for a few hours with the power left ON, and restart the operation after the condensation has dried up.

Be specially cautious against condensation in a following circumstance:

When this unit is carried from a place to another across a large difference in temperature, when the humidity in the room where this unit is installed increases, etc.

Note related to transportation and movement Before transporting or moving this unit, carry out the following operations.

⑦ Remove the CD or MD from the unit.
② Press the ►/II key of the MD.

MD NO DISC

③ Press the ►/II key of the CD.

Wait for some time and verify that the display becomes as shown in the figure.

CD NO DISC

G Wait a few seconds and turn the unit OFF.

Memor	v hackun	function
momory	γ νασκαρ	lanction

Stored contents which are cleared immediately when power plug is unplugged from power outlet	MD recorder section	
Stored contents which are cleared in at least a day after power plug is unplugged from power outlet	Amplifier section "on/standby" status (ON or STANDBY) Last input selection Volume control value Tone control levels AUX input level Balance setting Tuner section Receiving band Frequency Preset stations Auto/mono setting Program timer setting contents Cassette deck unit Transport direction tape EQ. Reverse mode	

WARNING NOTICE:

IN MOST CASES IT IS AN INFRINGEMENT OF COPY-RIGHT TO MAKE COPIES OF TAPES OR DISCS WITH-OUT THE PERMISSION OF THE COPYRIGHT OWNERS. ANYONE WISHING TO COPY COMMERCIALLY AVAIL-ABLE TAPES OR DISC SHOULD CONTACT THE ME-CHANICAL COPYRIGHT PROTECTION SOCIETY LIM-ITED OR THE PERFORMING RIGHTS SOCIETY LIMITED. What seems to be a malfunction is not always so. Before calling for service, check the following table according to the symptom of your trouble.

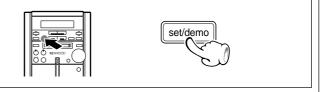
Operation to reset

The microcomputer may fall into malfunction (impossibility to operate, erroneous display, etc.) when the power cord is unplugged while unit is ON or due to an external factor. In this case, execute the following procedure to reset the microcomputer and return it to normal condition.

• Please note that resetting the microcomputer clears the contents stored in and it returns to condition when it left the factory.

Unplug the power cord from the power outlet then, while holding the "set/demo" key depressed, plug the power cord again.

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Symptom	Cause	Remedy
Sound is not produced.	 The speaker cords are disconnected. The volume control is set to the minimum position. The MUTE key of remote control unit is switched ON. The headphone plug is inserted into the jack. 	 Connect properly referring to "System connections". Adjust to an required volume. Switch MUTE OFF. → 19 Unplug the headphone plug.
"standby/timer" blinks and no sound is put out.	• The speaker cords are short-circuited.	• Turn the unit OFF, remove the short- circuit and turn the unit ON again.
No sound from the head- phones.		● Insert correctly. → 19
Sound is not produced from the left or right speakers.• The speaker cords are disconnected.• The BALANCE is set completely to the left or right channel.		 Connect properly referring to "System connection". → 10 Adjust the optimum left and right balance. → €1

Amplifier section/Speakers

Tuner section

Symptom	Cause	Remedy	
The clock display blinks with- out changing the figures.	 There was a power failure. The power cord was unplugged from the outlet. 	 Adjust the present time again. Adjust the present time again. 	+ 63
Timer operation is not pos- sible.	 The present time has not been adjusted or there was a power failure. The timer ON time and OFF time have not been set. The timer execution was not set up. 		→ 65
Radio stations cannot be re- ceived.	 The antennas have not been connected. A proper broadcasting band has not been selected. The frequency of the station to be received is not tuned. 	 Connect antennas. Select a band. Tune to the frequency of the desired station. 	
Noise interferes.	 Car ignition noise. Influence of an electric appliance. A TV set is installed near the system. 	 Install the outdoor antenna in an apart position from the road. Switch the suspected electric appliance OFF. Install the TV or the system at an increased distance between them. 	
A station has been preset but it cannot be received by press- ing the P.CALL key.	 The frequency of the preset station is not tunable. The preset memory has been cleared because the power cord has been unplugged for a long period. 	 Preset stations with tunable frequencies. Preset stations again. 	→

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Symptoms related to MD standard

Symptom	Cause	
"DISC FULL" is displayed while the disc still has a remaining recordable time.	 More than 255 tracks (track No. 256 or more) cannot be recorded. (There may be also cases in which recording is impossible while the track number is less than 256.) In such a case, the REMAIN time display shows "0:00". 	
The possible recording time does not increase even when a short track is erased.	 When the remaining time of the entire disc is less than 12 sec, the remaining time indication on the display becomes "0:00". When the total time of the deleted tracks exceeds 12 sec, the display changes to the recordable time. When a short track is deleted on a repeatedly edited disc, the remaining time may not increase. 	
Tracks can not be connected.	 Connection of the track resulting from edit processing may not be possible. 	
The time which has been recorded on the MD and the remaining time do not add up to the maximum recording time (60 or 74 min.).	 As recording is executed with 2 sec. as the minimum unit, the display time may not coincide. 	
When search is performed in a track which has been compiled by editing, the sound is some- times interrupted.	 This derives from the restriction in the MD system standard and not a malfunction. 	
The track numbers are not assigned correctly.	• Depending on the contents of the recorded source (CD etc.), the track numbers may not be assigned correctly.	
"READING" is displayed for an abnormally long time.	 When a new recordable MD (with nothing recorded) is inserted, "READING" is displayed longer than usual. 	
The time display becomes inaccurate with a monaurally recorded disc.	 Monaural recording and stereo recording are executed according to different formats. This is not a malfunction. 	
Input of 1792 title characters is not possible.	• The title recording area is used in units of 7 characters, so that input of 1792 characters may not be possible.	

MD recorder section (other symptoms)

Symptom	Cause	Remedy
Sound is not output even when the play key is pressed.	 No disc has been loaded. A non-recorded disc has been loaded. 	 Load a disc. Load a prerecorded disc or playback- only disc. → ⑧
Recording is not possible	 The disc is write-protected. An attempt is made to record digital signal from a source while its digital copy has been prohibited by SCMS. The recording level is too low. (During AUX input operation) A playback-only disc has been loaded. The disc does not have a recordable area. The input selector is set to MD. 	 Change the position of the write protect tab to the write position or use a recordable disc. Recording is not possible. Adjust the AUX input level. Use a recordable disc. Use another disc. Set the input selector to the source to be recorded. → 30
Sound is distorted.	 The recording level has not been adjusted. (During AUX input operation) A disc in which distorted sound has been recorded is played. 	Adjust the AUX input level.Record again.
Noise is noticeable.	 An external noise is induced. 	 Install the unit at a position apart from an electric appliance or TV set.
The display goes out for a moment after the unit has been turned ON.	 Switching is operated too quickly. 	 This is not a malfunction.

Displayed Message	Meaning	Action
NO DISC	• No disc is placed on the tray.	• Load a disc.
CAN'T COPY	• An attempt is made to record digital signal from a source while its digital copy has been prohibited by SCMS.	• Switch to analog recording.
DISC FULL	 There is no recordable area on the disc. An attempt is made to record a 256th track. 	 Use another recordable disc. More than 256 tracks cannot be recorded per disc.
TITLE FULL	• An attempt is made to assign a title with more characters than usable.	● Refer to "Total number of title charac- ters". → 50
BLANK DISC	• The disc does not contain any record- ings.	 When playback is required, use a re- corded disc.
NO TRACKS	• The disc does not contain any tracks but has a disc title.	• The disc can be used for recording with- out any problem.
READING	• The TOC *1 data of the disc is being read.	• This is a normal operation.
WRITING	• The data related to editing or recording is being written in the disc.	• This is a normal operation.
DISC ERROR	• The contents of UTOC ^{*2} are abnormal.	● Perform "ALL ERASE" operation. If this is not possible, use another disc. → <u></u>
CAN'T EDIT	• An attempt is made to perform editing beyond the restrictions, for example to erase a track which is too short.	• Perform editing following the restric- tions.
?(blinking)	• This is a message for confirming if edit- ing can really be executed.	• Press the ENTER key to execute editing.
PROTECTED	• The minidisc is write-protected.	• Cancel the write protection
PLAY ONLY	• The minidisc is only for playback.	• Insert a minidisc for recording.
UNIT ERROR	• This indicates some trouble.	 Return to normal condition is made by switching the unit off and then on again.

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*1All minidiscs contain a Table of Contents (TOC) in addition to sound signals. The TOC is similar to the table of contents in a book and contains information, such as track numbers, track length, and character information, that cannot be rewritten.

*2In addition to the TOC, minidiscs also contain a special User's Table of Contents (UTOC) that contains track number, track length, and character information, that can be rewritten.

Memory Backup for the MD Recorder Section

The contents of the memory are not stored on the disc if the power cord is unplugged.

If there is a power failure or if the power cord is unplugged, the recording or editing information (normally recorded when the minidisc is removed) may be erased or destroyed before it is recorded on the minidisc. Once the information has disappeared, it can not be recovered.

After recording or editing, always remove the minidisc to record the recording or editing information.

In case of difficulty **73**

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CD player section

Symptom	Cause	Remedy
A CD is placed in the player but it cannot be played.	 The disc is placed upside down. The disc position is displaced. The disc is extremely dirty. The disc is scratched. Dew is condensed on the optics lens. 	 Place the disc properly, with the label side facing upward. Place the disc properly. Clean the disc referring to "Disc handling precautions". → ⑧ Try another disc. Refer to "Caution on condensation" and remove the condensation by evaporation. → ⑥
Sound is not produced.	 The disc has not been placed. The player is not put to the play mode. The disc is extremely dirty. The disc is scratched. 	 Place a disc in the CD player. Press the ►/II key. Clean the disc referring to "Disc handling precautions". Try another disc.
Sound skips.	 The disc is dirty. The disc is scratched. The player is subject to vibration. 	 Clean the disc referring to "Disc handling precautions". → [8] Try another disc. Install the unit in a place not subject to vibrations.

Remote control unit

Symptom	Cause	Remedy	
Remote control operation is not possible.	• The remote control is too far away from the system, the controlling angle is deviated or there is an obstacle in between.	 Replace with new batteries. Operate the unit inside the remote controllable range. Load a CD, MD or cassette tape in the component to be played. 	+ 17 + 17

In case of difficulty

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Cassette deck

Symptom	Cause	Remedy
Sound cannot be produced by pressing the play key.	• The head is dirty.	 Clean the head referring to "Mainte- nance". → 68
	• The tape is wound too tight due to irregular winding.	• Try another tape.
	 A nonrecorded tape is played. 	• Play a recorded tape.
No operation occurs even when an operation key is	• The cassette holder is not closed completely.	Close the holder completely. → 26
pressed.	 The operation key is pressed immediately after closing the cassette holder. The operation key is pressed in less than 4 seconds after turning the power ON. A tape is not inserted in the unit. The tape is wound too tight due to irregular winding. 	 Press operation keys in more than a few seconds after closing the cassette holder. Press operation keys after waiting for more than 4 seconds. Insert a tape. → 26 Try another tape.
	 The tape is fully wound to one of the reels. 	 Change the tape transport direction or reverse the tape insertion orientation. → 26
The cassette holders cannot	• The key is pressed during recording or	• Press in stop mode.
be opened by pressing the "▲ push OPEN" area.	playback.The microcomputer is malfunctioning due to external noise.	• Reset the microcomputer 20
Sound is harsh or high fre-	• The head is dirty.	• Clean the head referring to "Mainte-
quencies are not reproduced.	• The tape is stretched or shrunk.	nance". → 68 • Try another tape.
Sound is distorted.	 The recording level has not been adjusted. (During AUX input operation) The tape being played was recorded with distorted sound. 	Adjust the AUX input level.Try another tape.
Noise is noticeable.	• The tape head is magnetized.	• Demagnetize the head referring to "Main-
	• External noise is induced.	tenance". $\rightarrow 663$ • Install the system at a distance from
	 A tape recorded with Dolby NR ON is played with "tape EQ." off. 	other electric appliances and TV. ● Set the " tape EQ. " to on. → 27
Sound vibrates.	• The capstans or pinch rollers are dirty.	• Clean the head referring to "Mainte-
	• The tape is wound irregularly.	 nance". → 68 Wind the tape again by fast forwarding, rewinding or playing from an end to the other. → 27
Recording cannot be started by pressing the record key.	 The recording protect tab of the cassette has been broken. The cassette holder is not closed completely. 	 Use a cassette with an unbroken recording protect tab or block the hole. → 9 Close the holder completely. → 26
	 The TAPE input is selected. The tape is fully wound to one of the reels. 	 Set the input selector to the source to be recorded. Change the tape transport direction or
		reverse the tape insertion orientation. -26

Specifications

HM-381MD (En)

Main unit

[[Amplifier section] Effective output power during STEREO operation 1 kHz, 10 % T.H.D., at 6 Ω
Rated output power during STEREO operation
Other countries
1 kHz, 0.7 % T.H.D., at 6 Ω 12 W + 12 W
Frequency response
AUX 20 Hz~20 kHz (0 dB ~ -3dB)
[Tuner section]
FM tuner section
Tuning frequency range 87.5 MHz ~ 108 MHz
MW (AM) tuner section
Tuning frequency range
0 kHz ston 521 kHz 1 602 kHz

9 kHz step	531 kHz ~ 1,602 kHz
10 kHz step	530 kHz ~ 1,610 kHz

[MD recorder section]

Laser	Semiconductor laser
Recording methodField modu	lation overwrite method
D/A Conversion	1 Bit
Wow & flutter Less	than unmeasurable limit

[CD player section]

Laser	Semiconductor laser
D/A Conversion	1 Bit
Frequency response	20 Hz~20 kHz
Wow and flutter Le	ess than unmeasurable limit

[Cassette deck section]

Track 4-1	track, 2-channel stereo
Recording system	
	(Frequency: 65 kHz)
Heads	
Playback / recording head	
Erasing head	
Motors	
Wow and flutter	0.2 % (W.R.M.S.)
Fast winding time	Approx. 100 seconds
	(C-60 tape)

[General]

Power consumption	36 W
Dimensions	W : 180 mm
	H : 257 mm
	D : 275 mm
Weight (net)	5.1 kg

Speakers

Enclosure	Book shelf type, magnetically shielded
Speaker config	uration

Woofer	100 mm, cone type
Tweeter	. 50 mm, cone type
Impedance	6Ω
Maximum input level	20 W
Dimensions	W : 150 mm
	H : 255 mm
	D : 240 mm
Weight (net)	2.4 kg(1 piece)



KENWOOD follows a policy of continuous advancements in development. For this reason specifications may be changed without notice.

• Sufficient performance may not be exhibited at extremely cold locations (where water freezes).

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For your records

Record the serial number, found on the back of the unit, in the spaces designated on the warranty card, and in the space provided below. Refer to the model and serial numbers whenever you call upon your dealer for information or service on this product.

Model _____ Serial Number __

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