KENWOOD

HD-5ND

INSTRUCTION MANUAL

KENWOOD CORPORATION



B60-5270-08 00 C (T/M) OC 0204

⚠ Caution : Read this page carefully to ensure safe operation.

Units are designed for operation as follows.

U.S.A. and Canada	AC 120 V only
Europe and U.K	AC 230 V only

For the United Kingdom

Factory fitted moulded mains plug

- 1. The mains plug contains a fuse. For replacement, use only a 3-Amp ASTA-approved (BS1362) fuse.
- 2. The fuse cover must be refitted when replacing the fuse in the moulded plug.
- 3. Do not cut off the mains plug from this equipment. If the plug fitted is not suitable for the power points in your home or the cable is too short to reach a power point, then obtain an appropriate safety approved extension lead or adapter, or consult your dealer.

If nonetheless the mains plug is cut off, remove the fuse and dispose of the plug immediately, to avoid a possible shock hazard by inadvertent connection to the mains supply.

IMPORTANT : The wires in the mains lead are coloured

in accordance with the following code:

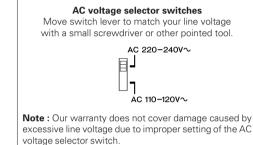
Blue : Neutral Brown : Live

Do not connect those leads to the earth terminal of a three-pin plug.

Other countries AC 110-120 / 220-240 V switchable*

* AC voltage selection

The AC voltage selector switches on the rear panel are set to the voltage that prevails in the area to which the unit is shipped. Before connecting the power cord to your AC outlet, make sure that the setting positions of these switches match your line voltage. If not, they must be set to your voltage in accordance with the following direction.



Safety precautions

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





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

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

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



The marking of this product has been classified as Class 1. It means that there is no danger of hazardous radiation outside the product. Location: Back panel

Preparation

Special features

Equipped with ATRAC 3 for long digital recording/playback functions (LP2, LP4).

Enables long digital recording and playback up to two times longer (about 160 minutes) or four times longer (about 320 minutes) than the standard time. (Times based on use of an 80-minute disc.)

Supports CD to MD high-speed (4X) dubbing

High-speed CD to MD dubbing function reduces dubbing time to about 1/4 the normal time.

Playback of CD-R/RW discs

The CD player is capable of playing both CD-R and CD-RW music discs, which have been recorded on a CD recorder.

Equipped with a sampling rate converter

Equipped with an optical digital input terminal that can be hooked up to a BS/CS tuner for digital recording.

A 3-disc CD changer and MD player in one slim unit

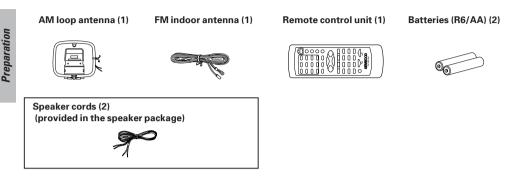
A 3-disc CD changer and MD player in one compact unit is now a reality. This unit not only allows you to enjoy hours of CD music as BGM, but it also makes recording music on a single CD a snap.

HD-5MD/EN

Accessories

Unpacking

Unpack the unit carefully and make sure that all the accessories are present.



If any accessories are missing, or if the unit is damaged or fails to operate, notify your dealer immediately. If the unit was shipped to you directly, notify your shipper immediately. Kenwood recommends that you retain the original carton and packing materials in case you need to move or ship the unit in the future.

Keep this manual handy for future reference.

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6 IMPORTANT SAFFGUARDS

HD-5MD/FN

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 table-cloth 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 shall not be exposed to dripping and splashing-for example, near a bathtub, washbowl, kitchen sink, laundry tub, in a wet basement, or near a swimming pool, etc. Do not place an object containing liquid, such as a flower vase, on the appliance.

- 6. 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. Do not place a flaming object, such as a candle or lantern, on or near the appliance.
- 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 qualified 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.

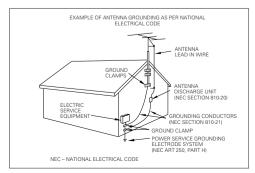
C. The appliance has been exposed to rain or water.

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 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.
- 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

Make connections as shown below.

When connecting the related system components, refer also to the instruction manuals of the related components.

CAUTION

Do not plug in the power lead until all 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 by referring to "In case of difficulty". -2

CAUTION

Be sure to adhere followings. Or proper ventilation will be blocked causing damage or fire hazard.

- Do not place any objects impairing heat radiation onto the top of the unit.
- Leave some space around the unit (from the largest outside dimension including projection) equal to or greater than, shown below.

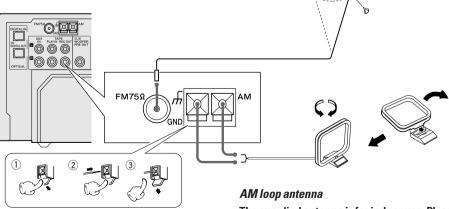
Top panel : 50 cm Back panel : 10 cm

Connection of accessory antennas

FM indoor antenna

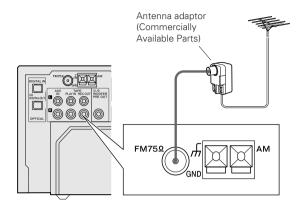
The supplied antenna is for temporary indoor use only. For stable signal reception, we recommend to use an outdoor antenna. Remove the indoor antenna if you connect to an outdoor antenna.

- O Connect the antenna to the antenna terminal.
- Occate the position providing good reception condition.
- Six the antenna.



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 reception.

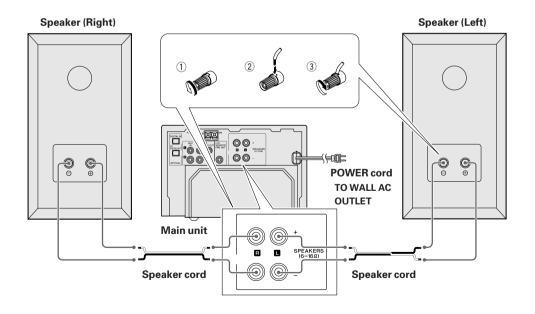
Connection of FM outdoor antenna (sold separately)



FM outdoor antenna

Lead the 75 Ω coaxial cable connected to the FM outdoor antenna into the room and connect it to the FM 75 Ω terminal. Please remove the indoor antenna after an outdoor antenna has been installed.

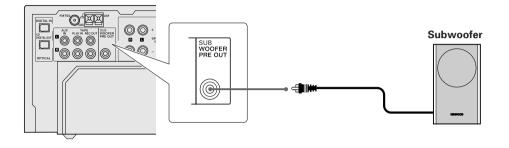
Connection of the speaker system



- Never short-circuit the + and speaker cords.
- If the left and right speakers are connected inversely or if the speaker cords are connected with reversed polarity, the sound becomes unnatural with ambiguous acoustic image positioning. Be sure to connect the speakers and speaker cords correctly.

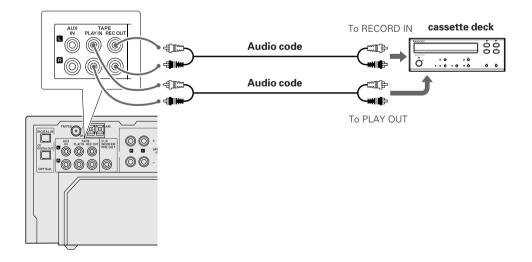
Connection of a subwoofer (sold separately)

A subwoofer provides powerful playback of the very low range. It can be used with all types of playback.



Connection of a cassette deck (sold separately)

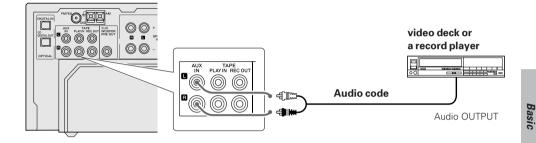
Connect a separately sold cassette deck with the accessory audio cord to the terminals TAPE PLAY IN and REC OUT at the rear of this unit. Please refer also to the operation instructions supplied with the cassette deck.



Connection to an external source (audio equipment)

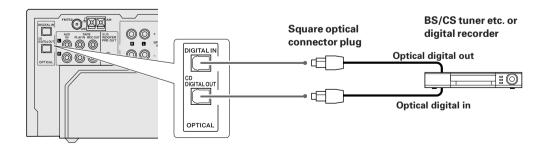
In case of analog connection

You can use the input terminal AUX at the rear of this unit to connect a video deck or a record player (P-110) (sold separately) with built-in RIAA equalizer amplifier.



In case of digital connection

You can use the digital I/O terminals OPTICAL at the rear of this unit to connect a BS/CS tuner or other digital equipment for digital input to this unit and output of the digital signal from the CD of this unit to external equipment.

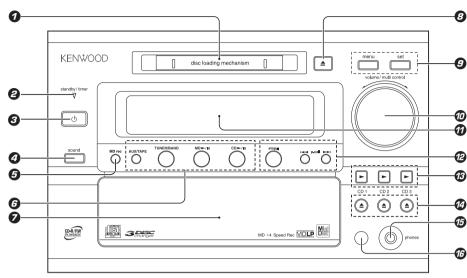


12 Controls and indicators

Main unit

+ 17

+ 20 + 22



• Mini Disc insertion slot

Standby/timer indicator Standby status (power OFF): Red Timer standby status (power OFF): Green Energized (power ON): Not lit

❸ Ů key	→ 16
Press to set the unit to On or Standby.	
3 sound key Used to switch the sound.	→ 17
G MD rec (record) key Used to record to Mini Disc.	+ 33
Input selection keys AUX/TAPE	+ 30
Selection of AUX (externally connected ment) or tape.	equip-
TUNER/BAND	→ 24
Used to switch the broadcasting band (FM) when listening to the radio.	AM or
MD ►/II	+ 22
Used to select MD for playback and for pa	ausing.
CD ►/II	- 20
Used to select CD for playback and for pa	ausing.
CD tray	→ 20
Ø ▲ key To eject a MD.	→ 22

9	menu	key
---	------	-----

Used for application operations for each source.

set key → ① Used to confirm a function selected in the menu.

⑦ volume/multi control knob → ① → ① ↓ Used for volume adjustment and to select items in the setting menus.

Display panel

Ø stop ∎ kev

Press to stop a disc.

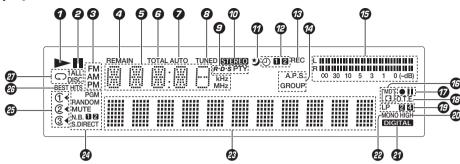
When this is pressed in standby mode, the present time is displayed for 5 seconds.

I⊲⊲ p.call ►► key

CD, MD : skip CD or MD tracks → 🗵	23
TUNER : select a preset radio station	→ 24
	→ 21
Select the CD1, CD2 or CD3 and start pla	avback.

- Headphone jack 16 Connect headphone with a stereo mini-plug (optionally available).
- Remote sensor 15 This window receives signals from the remote control unit.

Display



- Playback indication
- Playback pause indication
- O AM/FM (reception band) indication AM/PM (morning/afternoon) indication
- **O** REMAIN (remaining time) indication
- **O** Numerical display of frequency, time, track No., program No., etc.
- **③** TOTAL(total recording time) indication
- AUTO (auto tuning) indication
- **3** TUNED (radio broadcast tuned) indication
- R·D·S (Radio Data System) indication, PTY (Program Type Identification) indication (For UK and Europe)
- STEREO (stereo broadcast reception) indication
- Ø ₺ (sleep timer) indication
- - ④ (timer 2) indication
- REC (recording timer) indication
- A.P.S. indication

Indication of automatic power saving status.

GROUP (MD group function) indication

- Devel indication
- MD indication

When an MD is set, the $\ensuremath{\mathbf{\Omega}}$ indication on the inside appears.

- - II (MD recording pause) indication
- O.T.E. (one-touch edit) indication
- Description
 Description

Indication with stereo 2x recording/playback.

LP4 indication

HIGH indication

Indication at the time of CD high-speed dubbing.

DIGITAL indication

Indication at the time of digital recording.

MONO indication

Indication of monaural long-time recording.

O Character information display

Character information like the name of the received radio station (at the time of FM auto preset), CD title, MD title, etc. is displayed.

PGM indication

Indication at the time of program playback.

RANDOM indication Indication at the time of random playback.

MUTE indication

Indication at the time of mute (no sound).

N.B.1/N.B.2 indication

Indication when the N.B. (natural bass) function is selected.

S.DIRECT indication

Indication when the source direct function is $\ensuremath{\mathsf{ON}}$.

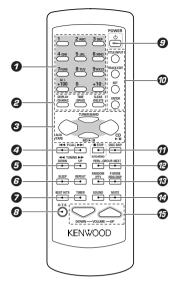
CD loading indications

- BEST HITS indication
- Repeat mode indication
 - 1 : Indication of one track repeat.

 - □ ______ ALL : Indication of all discs repeat

Indication with stereo 4x recording/playback. Download from Www.Somanuals.com. All Manuals Search And Download.

Remote control unit



Basic

14

Infrared ray system

Model : RC-F0700E (For UK and Europe) : RC-F0700M (For other countries)

⑦ Numeric keys →21→23 Used to select a CD/MD track number or recall a preset station of the tuner.

② DISPLAY/CHARAC. key → 21 → 23 Used for display switching and for selection of the group of input characters.

TIME/SPACE key -21 - 23Used for adjustment of the present time and for input of a space at the time of MD editing.

CLEAR/DELETE key

Used to delete a program or input characters.

Basic operation keys (input selectors, play/ pause)

CD ►/II key	→ 20
MD ►/II key	+ 22
TUNER/BAND key	→ 24
AUX/TAPE key	→ 30
Ø I P.CALL ►►I keys	+21+23+24
⑤ ◄◄ TUNING ►► keys	+21+23+26
SLEEP key	→ 67
Press to set the sleep timer	
REPEAT key	- 38
Press for setting repeated pla	yback.

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.

,,	
BEST HITS key Used for BEST HITS recording or BES playback.	→ 45 ST HITS
TIMER key Used for execution and cancellation of t ous timers.	→ <u>70</u> he vari-
O.T.E. key When this key is pressed during CD pl only the track being played will be copied while the entire CD will be copied wh pressed while the CD is stopped.	to MD,
OPOWER key Press to set the unit to On or Standby.	→ 16
TITLE INPUT key Used for disc/track title input.	→ 60
TRACK EDIT key Used for MD editing.	→ 48
SET key	+ 48
When the source is CD or MD	
Used for setting, confirmation, etc. time of MD editing.	at the
Used to switch the title indication etc	
When the source is the tuner	
Used to change the auto-preset static	on.
At the time of standby	
Used for clock display.	
ENTER key	→ [<u>48</u>]
When the source is MD	
Used for MD editing and for confirm the entered title etc.	ation of
When the source is the tuner	
Used for confirmation of manual pres	etting.
STOP/AUTO/MONO key	
CD, MD : →2 Press to stop a disc.	2 - 22
TUNER : Used to switch AUTO tuning or MANU	→ <u>26</u> IAL tun-
ing (Monaural reception) Standby mode :	
When this is pressed in standby mo present time is displayed for 5 second	
DISC SKIP key	
Each time this key is pressed, the unit so to CD1, CD2, or CD3 respectively.	witches

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+ 37

Controls and indicators

HD-5MD/FN

PREV.-GROUP- NEXT key

Used for MD group editing.

RANDOM/PTY key (For Europe and U.K.)

- CD, MD : Press for setting playback of tracks in a random order. →39
- TUNER : Used at the time of PTY reception.

- 28

→ 51

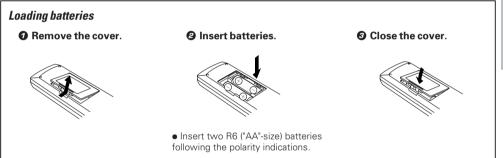
RANDOM key (For other countries) → ③ Press for setting playback of tracks in a random order.

P.MODE/RDS DISP. key (For Europe and U.K.)

CD, MD : Press to program tracks in the de sired sequence.

TUNER : Used at the time of RDS r	eception.
P.MODE key (For other countries) Press to program tracks in the de quence.	- 29 - 36 esired se-
OUND key Press to switch the sound effect.	- 17
MUTE key Press to mute the audio temporarily.	+ 17
OLUME keys Press to adjust the volume.	→ 16

Operation of remote control unit

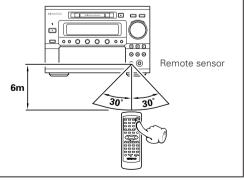


Operation

After plugging the power cord of this unit, press the POWER (小) key of the remote control unit to turn the system ON. When the system is turned ON, press the key of the function to be operated.

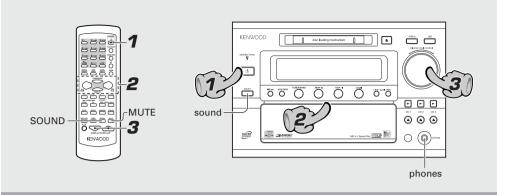
 When pressing more than one remote control keys successively, press the keys securely by leaving an interval of 1 second or more between keys.

Operating range (approx.)



- 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.

16 Basic use method



1 Power ON (OFF)

When the power is ON and the key is pressed, the power becomes OFF (standby).

It takes a little time from power OFF operation until the power is switched off.

 For about five seconds after power ON, mute (no sound) status is applied for circuit protection.

One-touch operation function

When one of the following keys is operated in power OFF (standby) condition, the power will be switched on, the source will be selected, and playback will start in case of CD.

* The source can also be selected by pressing TUNER/BAND, CD ►/II, MD ►/II or AUX/TAPE on the remote control. (Playback will start au-

CD►/II key, MD ►/II key, TUNER/BAND key, AUX/TAPE key.

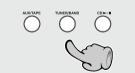
Select the source to be listened to.

→ 20

+ 22

+ 24

+ 30



Decrease version Increase

3. Adjust the volume.

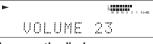
CD

MD

TUNER

AUX/TAPE

 Rapid turning produces a large change in volume. (Al VOLUME function)



CD 01

L R 00 30 10 5 3 1 0 (-d8)

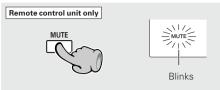
• A guide value (0 to MAX) is shown on the display.

tomatically when CD ►/II or MD ►/II key is pressed.)

Listening through headphone

- phones
- Insert the headphone plug into the headphone jack.
- The sound from all speakers are cut off.
- Turn the volume/multi control knob to adjust the volume.
- Lower the volume before you connect or disconnect plugs.
- Headphone with a stereo mini plug can be connected.

Muting the sound temporarily



Adjust the left/right volume balance

Main unit only

O Select "BALANCE" as follows.



 Press the "menu" key.
 Select "BALANCE" with the "volume/multi control" knob.

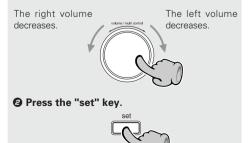
When the "volume/multi control " knob is turned, switching is done as follows.

"MD REC MODE ?"
 "GROUP MAKE ?"
 "REC SPEED ?"
 "REC LEVEL ?"
 "AUX INPUT ?"
 "TONE ?"
 "BALANCE ?"
 "TIME ADJUST ?"
 "TIMER SET ?"
 "A.P.S. SET ?"
 "DIMMER ?"

Return to the original status is made when no operation is performed within 20 seconds.

2 Press the "set" key.

Adjust the left/right volume balance with the "volume/multi" control knob.



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

Listening to the original sound of the source (source direct)

The sound from CD, MD or another source can be heard as faithful as possible to the original sound by not passing it though the sound adjustment circuits of this unit.



• Press the "sound" key repeatedly to select "S.DIRECT".



Each press switches the modes as follows.



- * "TONE 1(2,3)" is not displayed when "BASS" and "TREBLE" both are set to "0".
- When source direct is selected, N.B1, N.B2, and TONE1, TONE2, TONE3 are cancelled.
- To return to normal mode, press the "sound" key repeatedly to select "SOUND MODE OFF".

Basic

Adjusting the tone TONE CONTROL

The low range (BASS) and the high range (TREBLE) each can be set to a desired level. Three types of tone control can be set in advance.

2

TONE CONTROL setting



(3)

Select "TONE 1 ?" (or 2, 3) with the "volume/multi control" knob and press the "set" kev.

③ Press the "set" kev.



 Adjust the level for the low range (BASS) with the volume/multi control knob and press the "set" key.



Adjust the level for the high range (TREBLE) with the volume/multi control knob and press the "set" key.





from -8 to +8.

• When the setting has been completed, return to the original display is made after display of "COMPLETE".

Listening with use of TONE CONTROL

Select and set the desired tone control setting set in advance.

- **O** Press the "sound" key repeatedly to select "TONE 1", "TONE 2" or "TONE 3". Each press switches the modes as follows. "N.B.1" "N B 2" sound * "TONF 1" * "TONE 2" * "TONE 3" "SOURCE DIRECT" "SOUND MODE OFF" * "TONE 1(2,3)" is not displayed when "BASS" and "TREBLE" both are set to "0".
- To return to normal mode, press the "sound" key repeatedly to select "SOUND MODE OFF".

N.B. circuit (natural bass)

NB1 : The low range will be emphasized. NB2: The low range will be emphasized still further.

O Press the "sound" key repeatedly to select "N.B.1" or "N.B.2".

Each press switches the modes as follows.



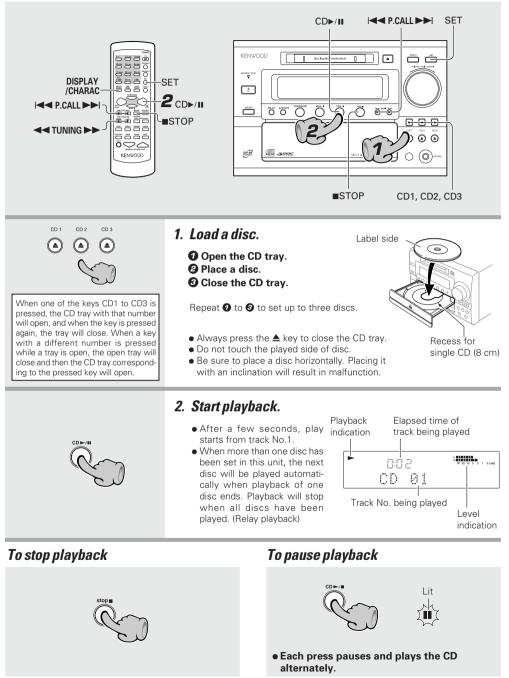
• To return to normal mode, press the "sound" key repeatedly to select "SOUND MODE OFF".

HD-5MD/EN

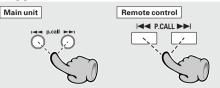


20 Playback of CD

Basic



Skipping tracks

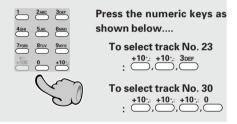


- The track in the direction of the key pressed is skipped, and the selected track will be played from the beginning.
- When the Idea key is pressed once during playback, the track being played will be played from the beginning.
- To skip further to a track located before the current track, press the Idd key quickly.

Playback from desired track

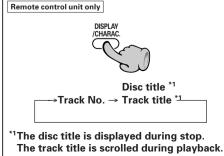
Remote control unit only

Select the desired track No.

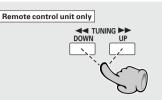


In regard to title display

When a disc conforming to CD TEXT is played and the "DISPLAY/CHARAC." key is pressed during CD playback (or during stop), the character information recorded on the CD can be displayed on the display. Each time the display key is pressed, switching is done between the following items.



To fast forward and backward



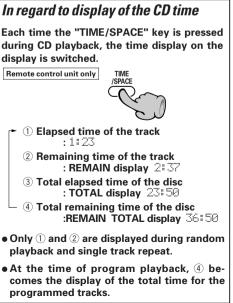
• Press and hold one of the keys during playback. Normal playback resumes at the point where the key is released.

Start of playback from a desired disc

Press the key for the desired disc.
 When no disc has been set for the selected tray, playback will start from the next disc.

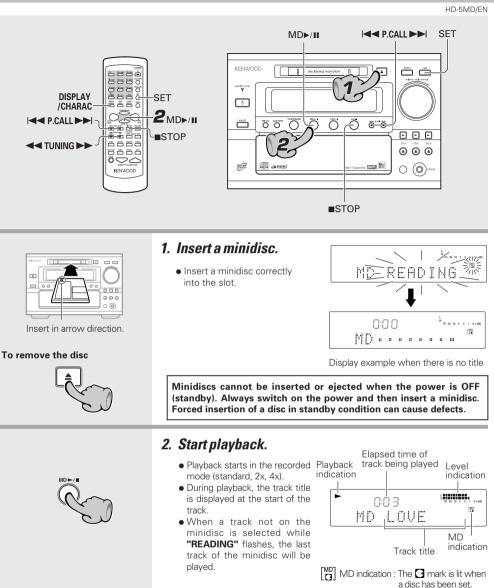
In regard to display of the disc indication

 Q → C is displayed when the disc information is read in.
 Q → C is displayed when the disc information is read in.
 Q → The symbol < lights at the selected disc number. When the CD ▲ key is pressed, playback starts from the disc with the symbol
 Disc indication



Basic

22 Playback of MD



To stop playback



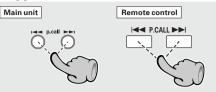
To pause playback



 Each press pauses and plays the CD alternately.

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Skipping tracks

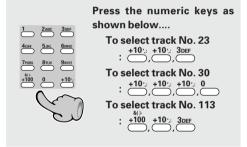


- The track in the direction of the key pressed is skipped, and the selected track will be played from the beginning.
- When the Idea key is pressed once during playback, the track being played will be played from the beginning.
- To skip further to a track located before the current track, press the I◄◄ key quickly.

Playback from desired track

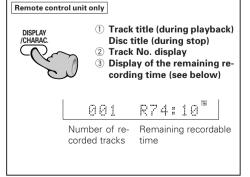
Remote control unit only

Select the desired track No.

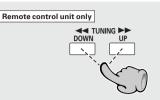


In regard to title display

When the display key is pressed during MD playback (or during stop), the character information recorded on the minidisc can be displayed on the display.



To fast forward and backward



- Press and hold one of the keys during playback.
- Normal playback resumes at the point where the key is released.

In regard to display of the MD time

Each time the "TIME/SPACE" key is pressed during MD playback, the time display on the display is switched.

Remote control unit only



- 1 Elapsed time of the track : 1:23
- ② Remaining time of the track : REMAIN display 2:37
- ③ Total elapsed time of the disc : TOTAL display 23:50
- ④ Total remaining time of the disc :REMAIN TOTAL display 36:50
- Only ① and ② are displayed during random playback and single track repeat.
- At the time of program playback, ④ becomes the display of the total time for the programmed tracks.

In regard to the MD playback mode (recording mode) (→ [33])

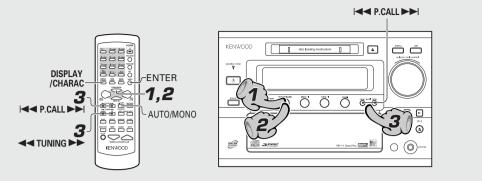
MD tracks are played back according to the recording mode (REC MODE).

MDLP uses the new audio compression standard ATRAC3, and it is shown on MD recorders and MD players with long-time recording and/or playback function for stereo 2x (or 4x), as well as on MD media recorded with ATRAC3 (MDs only for playback).



24 Receiving broadcast station

HD-5MD/EN





1. Select the tuner input.

Each press of the TUNER/band key switches the band as follows.

FM

2. Preset a radio station in memory.

Collective presetting of stations - 25

Follow the procedure in **"Collective presetting of stations"** to preset automatically the tunable radio stations in your area.

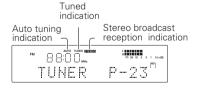
 Once the stations are stored by auto presetting, you are not required to repeat this procedure the next time you listen to radio. However when you shift to another location whereby the broadcast station frequencies are different, you will have to re-execute the presetting of stations.

One-by-one presetting (Manual preset) → 26

A station can also be tuned even when it is not preset. For details, read **"Tuning to a non-preset radio station (Auto tuning, Manual tuning)"**.

3. Tuning (Preset Call)

 If radio stations have already been stored with auto presetting or manual presetting, select a station using the Idd, >>I key. Each press of the same key switches the preset stations in sequence.

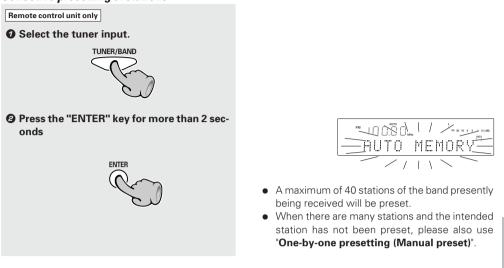


When $\blacktriangleright \vdash$ is pressed : $1 \rightarrow 2 \rightarrow 3 \dots 38 \rightarrow 39 \rightarrow 40 \rightarrow 1 \dots$ When $| \blacktriangleleft \triangleleft$ is pressed : $40 \rightarrow 39 \rightarrow 38 \dots 3 \rightarrow 2 \rightarrow 1 \rightarrow 40 \dots$

- When a key is held depressed, preset stations will be skipped at an interval of about 0.5 second.
- To select a preset station from the remote, use the I

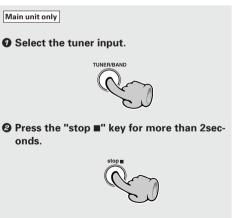


Collective presetting of stations



Channel space setting

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.



Each press the "stop " key for more than 2 seconds switches the modes as follows.

- (1) FM 50 k (2) FM 100 k
- At FM 50 kHz, the corresponding AM frequency is 9 kHz.

At FM 100 kHz, the corresponding AM frequency is 10 kHz.

Area		CHANNEL Space Frequency
1	USA, Canada and South American countries	FM: 100 kHz AM: 10 kHz
2	Other countries	FM: 50 kHz AM: 9 kHz

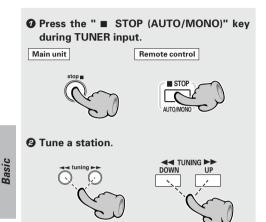
Basic

HD-5MD/EN

Tuning to a non-preset radio station (Auto tuning, Manual tuning)

Select the tuning mode according to the radio wave receiving condition.

When the receiving condition is good: AUTO mode When it is poor due to weak radio waves: MANUAL mode



One-by-one presetting (Manual preset)

Remote control unit only

- Perform the procedure in "Tuning to a nonpreset radio station (Auto tuning, Manual tuning)" to receive the station to be preset.
- **O** Press the ENTER key during reception.



Select one of the preset numbers from 1 to 40.



4 Press the ENTER key again.

(Repeat steps **0**, **2**, **3** and 4 to preset other stations)

Each press alternates the mode.

- Contemption C
- In MANUAL mode, FM stations are received in monaural.

In AUTO mode :

The next preset station can be received automatically every time the TUNING ($\blacktriangleleft \bullet r \rightarrow \bullet$) key is pressed.

In MANUAL mode :

Press the TUNING (◄< or ►►) key repeatedly until the desired station is received. The desired station can also be received by holding the TUNING (◄< or ►►) key depressed until its frequency is displayed.

• A maximum of 40 stations of the band presently being received will be preset.

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

27

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 :				
+28 The August the Human has for a station of the in				
The tuner automatically searches for a station which is currently broadcasting a specified program type (genre).				
PS (Program Service Name) Display :	• Some functions may not be provided or be give			
When an RDS broadcast is received, the station name is automatically displayed.	different names depending on countries or areas			

Before using RDS

For reception of RDS stations, the auto memory function must be used to preset the stations. During the auto memory function, the presetting sequence priority will be given to the RDS stations.

HD-5MD/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.

However, if a station is not preset by auto memory, "NO DATA" will light instead of the program (genre) type and PTY search is not available.

Set the reception band to FM. Preset RDS stations with the auto memory function. - 25

1. Select the PTY search mode.

Remote control unit only

RANDOM /PTY



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.

2. Select the desired program type.

Use program type table on the right for your convenience.

Selection with the I or I key.



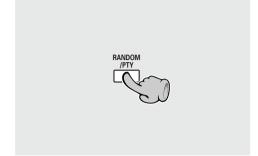
Select while "PTY" is lit.

The desired program type can be selected with the || or | be key from 29 types. Press the key and release it when the desired type is displayed.

Program type table

⊲, ►► keys	Program Type Name	Display
	Pop Music	POP M
	Rock Music	ROCK M
	Easy Listening Music	EASY M
Ť	Light Classical	LIGHT M
	Serious Classical	CLASSICS
	Other Music	OTHER M
	News	NEWS
•	Current Affairs	AFFAIRS
•	Information	INFO
UP	Sport	SPORT
	Education	EDUCATE
	Drama	DRAMA
	Culture	CULTURE
	Science	SCIENCE
	Varied	VARIED
	Weather	WEATHER
	Finance	FINANCE
	Children's programs	CHILDREN
	Social Affairs	SOCIAL
	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	DOCUMEN

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 to the station name display.

To change to a different program type :

Repeat steps 1., 2., 3.

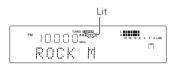
Using the RDS display function

Remote control unit only

Press the P.MODE/RDS DISP. key



When searching for a Rock Music broadcast Display while the tuner is searching.



Program type name display.

When a station is received.



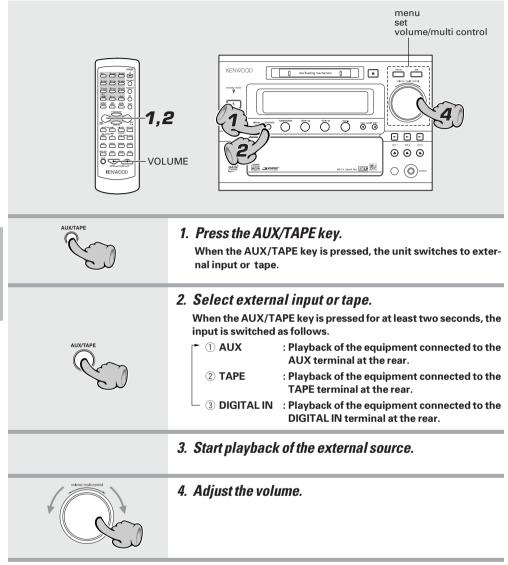
Station name display.

Each press alternates the mode.

- (1) PS display
- 2 Preset number display

30 Listening to an AUX/TAPE input source

HD-5MD/EN



Adjustment of the input level at the time of AUX selection

When the output level of the source equipment connected to the AUX terminal does not match the input level of this unit (when the volume is too high or too low), it can be adjusted.

O Select "AUX INPUT ?" as follows.

- ① Press the "menu" key.
- ② Select "AUX INPUT ?" with the volume/ multi control knob.
- **③ Press the "set" key.**

Adjust the input level with the volume/ multi control knob.

The input level can be adjusted from -5 to +2.

9 Press the "set" key to confirm the input level.

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Basic

HD-5MD/EN

This unit is compatible with long-play MD stereo recording and playback (compatible with MDLP).

The recording modes are stereo recording, monaural long-play recording, stereo 2x long-play recording, and stereo 4x long-play recording, and use is possible for all music sources which can be recorded by this MD.

Mixed recording of tracks with different recording modes into the same MD also is possible. Set the recording mode in advance, and then perform the recording operation.

In regard to long-play stereo recording (LP2, LP4)

Stereo long-play recording permits long-play recording by further increasing the digital compression ratio for the audio signal in comparison with stereo recording and monaural recording. The LP4 mode has a higher compression ratio than the LP2 mode and can record for a longer time.

- Tracks recorded on an MD with stereo 2x long-play recording (LP2) or stereo 4x long-play recording (LP4) with this unit can be played back on other equipment compatible with MDLP.
- With stereo recording on MD, the quality changes with increasing recording time. Use stereo recording (STE-REO) for recording with the best quality.

Stamp function (STAMP)

This is a function which automatically adds "LP:" in front of the titles of tracks recorded with stereo 2x long-play recording (LP2) or stereo 4x long-play recording (LP4) with this unit. When the stamp function is used, "LP:" will be displayed in front of the track title.

"LP:" will not be displayed during playback with this unit. It is displayed only at the time of title editing. "LP:" is displayed as the title only in case of playback on equipment not compatible with MDLP, when tracks recorded by stereo long-play recording are being played.

With this unit, the stamp function (STAMP) can be switched ON ("LP:" is added) or OFF ("LP:" is not added).

Types of record mode

Stereo recording (STEREO):

The possible recording time is the time shown on the MD cartridge.

Stereo 2x long-play recording (LP2):

The recording is in stereo, but the recording time is approximately double the time shown on the MD cartridge.

Stereo 4x long-play recording (LP4):

The recording is in stereo, but the recording time is approximately four times the time shown on the MD cartridge.

Monaural long-play recording (MONO):

The recording is monaural, but the recording time is approximately double the time shown on the MD cartridge.

In case of playback of an MD recorded in stereo long-play mode on equipment not compatible with stereo long-play mode

When it is tried to play tracks recorded in stereo long-play mode on equipment not compatible with stereo longplay mode, playback status will be reached, but no sound will be put out. When an MD with mixed stereo or mono recordings and stereo long-play recordings is played on such equipment, sound will be put out only for the stereo or mono recordings.

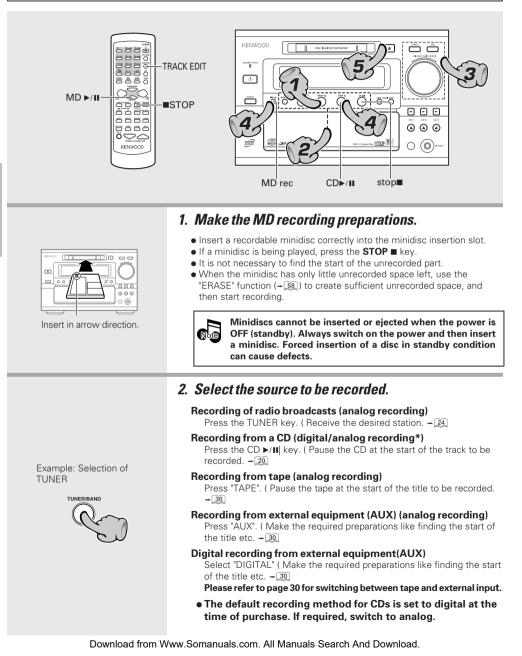
When such an MD is played and the volume is turned up excessively during a portion where no sound is put out, sound with a large volume will be put out suddenly when a track recorded with stereo or mono is reached. Take care not to turn up the volume excessively.

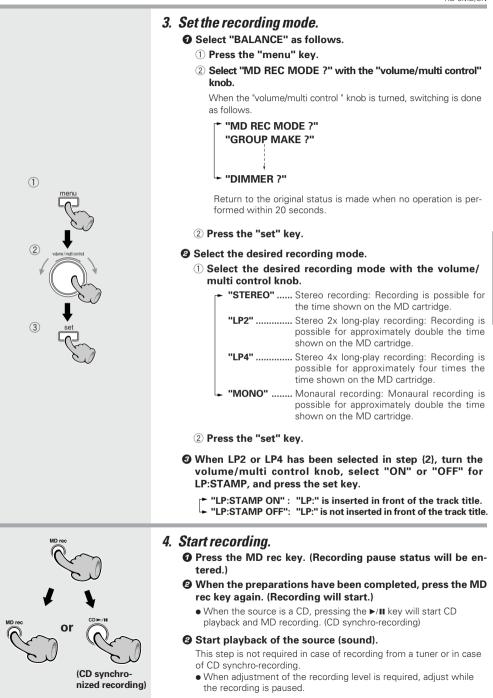


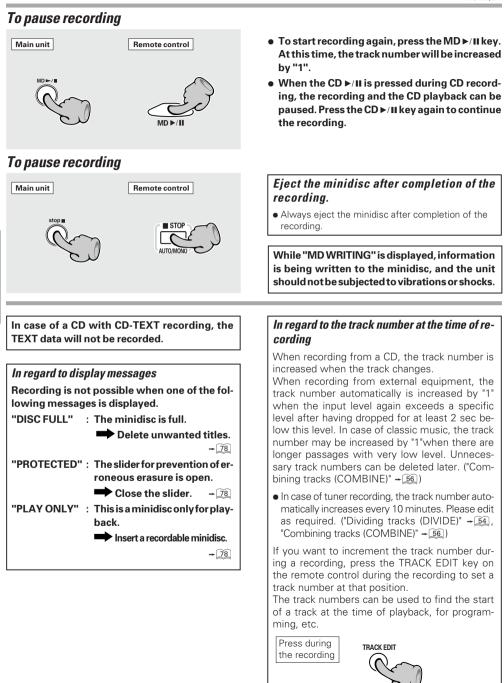
The MD editing functions have limitations in regard to tracks recorded in different recording modes. "Combining tracks" (COMBINE)"

32 Recording to MD

All recording functions can be used for long-play recording with ATRAC3 (MDLP) to MD. The recording method using the MD rec key explained here is convenient mainly for recording from the tuner or from an external source. "Convenient recording methods" is recommended for recording from CD. –







Select the CD recording format and the recording level. (When the source is a CD)

When recording from a commercial CD to an MD, select the recording format as "DIGITAL" (digital recording), the default setting at the time of purchase. However, when recording from CD to MD, digital recording may not be possible because of SCMS*. In such a case, switch the recording format to "ANALOG" (analog recording).

● For details, refer to "In regard to SCMS". → 🛐

O Select CD input

O Select "REC LEVEL ?" as follows.



- ① Press the "menu" key.
- ② Select "REC LEVEL ?" with the "volume/multi control" knob.
 - "MD REC MODE ?"
 "GROUP MAKE ?"
 "REC SPEED ?"
 "REC LEVEL ?"

"DIMMER ?"

Return to the original status is made when no operation is performed within 20 seconds.

2 Press the "set" key.

Select "ANALOG" or "DIGITAL" with the "volume/multi control" knob and press the "set" key.



Adjust the recording level.

- **O** Play the input source to be recorded.
- Press the MD rec key to enter recording pause status. In recording pause status, the recording level can be adjusted while looking at the level indication.

Select "REC LEVEL ?" as follows.

① Press the "menu" key.

- ② Select "REC LEVEL ?" with the "volume/multi control" knob.
 - "MD REC MODE ?"
 "GROUP MAKE ?"
 "REC SPEED ?"
 "REC LEVEL ?"

► "DIMMER ?"

Return to the original status is made when no operation is performed within 20 seconds.

2 Press the "set" key.

Turn the volume/multi control knob to adjust the recording level and press the set key.

Analog or digital recording is selected automatically according to the input source. Adjust so that the level indication does not exceed "0" frequently.

volume/mails control	
Set .	Dis digi
	aigi

LEVEL	A Marine Ma Marine Marine Mari
DIGITAL	+2 📠
Display example	in case of
digital recording	

indication

	LEVEL	1 * 20 10 1 2 1 1 (40)]
ۥ	ANALOG	-2 🔤	

Display example in case of analog recording

- The analog recording level can be adjusted from -12 to 0. The initial setting is 0.
- The digital recording level can be adjusted from -6 to +6. The initial setting is 0.
- At the time of CD 4x speed O.T.E. recording (- (2), recording is done at the recording level "0" (standard value), independent of the level set value.



Once recording has been completed, the recording level returns to the initial set value ("0").

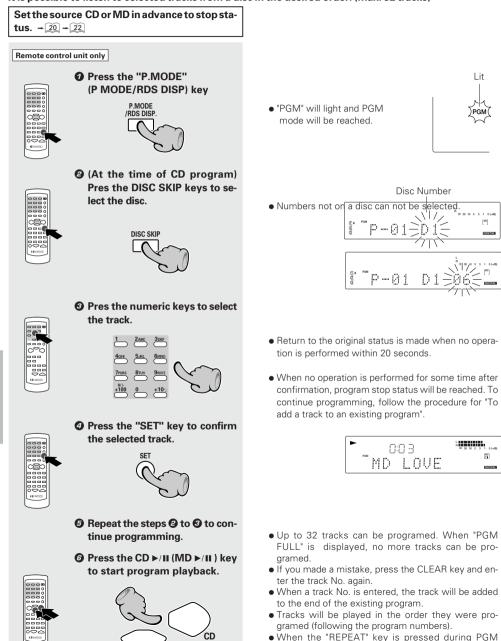
Application

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阍

Listening to the desired sequence (program playback)

It is possible to listen to selected tracks from a disc in the desired order. (Max. 32 tracks)



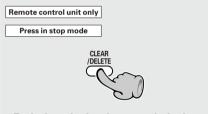
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mode playback or stop, the PGM mode playback can

To add a track to an existing program

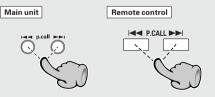
Remote control u	
6	(At the time of CD program) Pres the DISC SKIP keys to se- lect the disc.
	Select the track number to be added with the numeric keys.
	Press the "SET" key.

To clear a programed track



• Each time the key is pressed, the last track in the program is cleared.

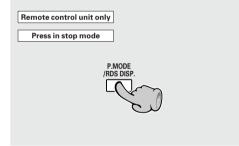
Changing to the next track during playback of a track



- When the ►►I key is pressed during playback, play will skip to the next track in the program.
- When the Idea key is pressed once during playback, the track being played will be played from the beginning.

- Up to 32 tracks can be programed. When "PGM FULL" is displayed, no more tracks can be programed.
- If you made a mistake, press the CLEAR key and enter the track No. again.
- When a track No. is entered, the track will be added to the end of the existing program.

To clear the entire program



Confirmation of the contents of the programmed tracks

Press the Idd, Idd Remote control

An unit

Remote control

Idd P.CALL IDD

Id

• Each time a key is pressed, the programmed tracks will be displayed sequentially.

Application

HD-5MD/EN

Repeated playback

You can repeatedly listen to a favorite track or disc. 1 track repeat The selected track will be repeated. All repeat The entire disc will be repeated.

Set the source CD or MD in advance to stop status. -20 - 22

Press the "REPEAT" key ("repeat" key) during playback or stop.



Remote control





Each press switches the repeat mode. (At MD)

- ① Off: Repeat deactivated
 ② "Q1": One track repeat
- _ 3 ",": All repeat

(At CD)



• To cancel repeat mode, press the **"REPEAT**" key ("repeat" key) repeatedly to make the repeat indication disappear.

Repeat playback of programmed tracks

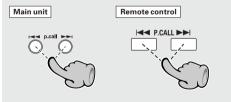
- Perform programming. 30
- **O** Press the "REPEAT" key.



Each press switches the repeat mode.

- repeat ON.
- 🖵 ② Program repeat OFF.

Changing to the next track during playback of a track



- When the ►► key is pressed during playback, play will skip to the next track.
- When the Idea key is pressed once during playback, the track being played will be played from the beginning.

Listening in random order (random mode)

 When the ►► key is pressed during playback, the next track will be selected at ran-

● When the Idea key is pressed once during

playback, the track being played will be

dom and will be played.

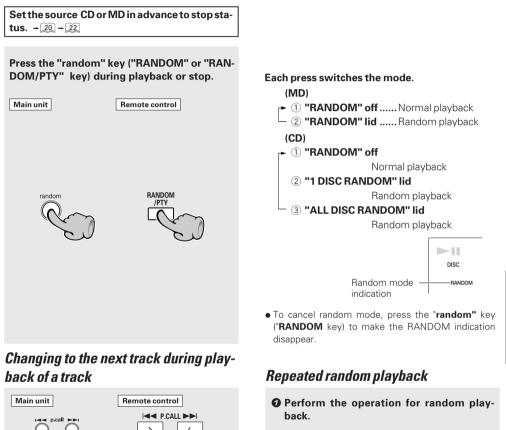
played from the beginning.

The tracks of one disc or all discs can be played back in random order.

(1 disc) random All tracks of one disc will be played and then playback will stop.

When an MD group has been selected, all tracks in that group will be played in random order. (+ 3)

All discs random ... After all tracks of one CD have been played in random order, the tracks of CD2 and CD3 will be played in random order, and then the playback will stop.



O Press the "REPEAT" key.



Each press switches the repeat mode.

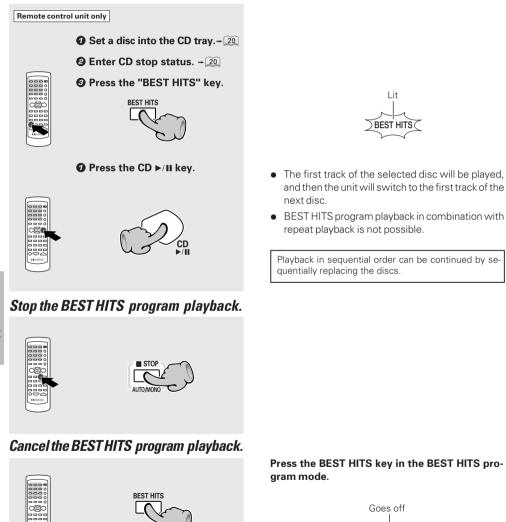
- r 1 Random repeat ON.
- 🗕 ② Random repeat OFF.

Playback only the first track of selected CDs (BEST HITS program playback)

Only the first track of the set CDs will be played.

As it is possible to exchange the CDs in the other trays while one CD is being recorded, this can be used conveniently to continue playback or recording the hits of single CDs.

(BEST HITS program recording. → 45))



Application

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

Recording to MD is possible with long-play recording (MD LP2, LP4) with all recording functions.

To record CD with a simplified method (One-touch edit recording) -

All-track recording (0.T.E.)

Records all tracks in a CD onto a tape.

Single-track recording (0.T.E.)

Records only one CD track being played onto a tape. (This is convenient for recording of desired tracks from a disc being heard for the first time.)

E E

When "REC SPEED" is set to "HIGH", recording to MD can be done with 4 times of the normal speed. $\rightarrow \widehat{42}$

To record desired CD tracks by reordering them (Program recording) - 44

Program recording



Recording of programed tracks in the programed order. (Convenient for recording only the desired CD tracks in the desired order.)

To record only the first track of selected CDs (Best hits program recording (BEST HITS) - AS

BEST HITS program recording



The tracks played by the BEST HITS program will be recorded. (This is convenient for producing an original selection of hits.)

To record all tracks of a CD as one group (Group recording (GROUP MAKE + 0.T.E.) - [47]

Group recording



The tracks of a recorded CD are recorded as one group. (When many tracks are recorded on an MD, grouping by artists or by albums is convenient for easy genre selection.)

After recording to a minidisc, always press the \blacktriangle key to eject the disc.

Recording of all tracks or a single track of a CD by one-touch recording (O.T.E.)

All tracks of a CD can be recorded by one-touch recording (normal speed, 4x speed) (all tracks O.T.E.)

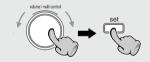
Main unit only

- **O** Select "REC SPEED ?" as follows.
 - ① Press the "menu" key.
 - ② Select "REC SPEED ?" with the "volume/ multi control" knob.
 - ③ Press the "set" key.



② Select the desired recording speed.

- ① Select the desired recording speed with the "volume/multi control" knob.
- ③ Press the "set" key.



- Set a recordable minidisc. → 32
- Ø Set a disc into the CD tray. → 20
- **⑤** Enter CD stop status. → 20
- **3** Set the recording mode (STEREO, LP2, LP4, or MONO).

Perform the operation of step 4 on page 33.

Press the "O.T.E." key on the remote control unit.



Ø After completion of recording, press the ▲ key to eject the minidisc.

(Main unit)



When the "volume/multi control " knob is turned, switching is done as follows.



Return to the original status is made when no operation is performed within 20 seconds.

When the "volume/multi control " knob is turned, switching is done as follows.



: Recording with normal speed.

"CD > MD HIGH"

: Recording with 4 times of normal speed.

- Recording will start from the first track of the CD, and all tracks will be recorded.
- When either the CD playback or the MD recording stops, the other operation also will stop.
- When the possible recording time or the possible number of tracks on the MD is exceeded, "DISC FULL" will be displayed and the recording will stop.
- Eject the minidisc after completion of the recording.

Always eject the minidisc after completion of the recording.

pplication

A single track of a CD can be recorded by one-touch recording (normal speed, 4x speed) (Single track 0.T.E.)

- Ø Set a recordable minidisc. 32
- Play a desired track. → 20
- **O** Press the "O.T.E." key on the remote control unit.





④ After completion of recording, press the ▲ key to eject the minidisc.



- When you want to record a track during playback of a CD, return to the start of that track will be made and playback and recording will be started just by pressing the O.T.E. key during playback.
- Recording will be done with the recording mode and the recording speed set in advance.
 Perform the operation of step 3 on page 33 to change the recording speed.
- At the end of the recording, the CD will enter pause status.
- In the same way, other desired tracks can be recorded.
- When the possible recording time or the possible number of tracks on the MD is exceeded, "DISC FULL" will be displayed and the recording will stop.
- Eject the minidisc after completion of the recording.

Always eject the minidisc after completion of the recording.

In case of CD-R/RW, depending on the disc recording condition and the characteristics, sound skipping or inclusion of noise may occur on rare occasions with recording to MD at 4x speed (CD > MD HIGH), and normal recording may not be possible.

In such a case, we recommend recording at normal speed (CD > MD NORM).

Recording in changed order (PGM mode playback + O.T.E.)

It is possible to program the CD tracks and to record this program to an MD. The tracks of three CDs can be programmed and recorded to one MD.

- Ø Select the desired recording speed. → 42
- Ø Set a recordable minidisc. → 32
- Set the disc(s) to the CD tray(s). → 10
- **O** Bring the CD to stop status.
- Program the tracks to be recorded. 36
- Press the "O.T.E." key on the remote control unit.



④ After completion of recording, press the ▲ key to eject the minidisc.



Cancel PGM mode playback.

PGM mode can be canceled by the procedure for "To clear the entire program". \rightarrow 37 Perform the operations of steps **@**and **@** on page 42 to select normal speed or 4x speed.

Perform the steps **0** to **9** of "Listening to the desired sequence (program playback)" on page 36 to program the tracks.

- Recording will be done with the recording mode and the recording speed set in advance. Perform the operation of step 3 on page 33 to change the recording speed.
- Recording of the programmed CDs starts.
- When either the CD playback or the MD recording stops, the other operation also will stop.
- When this unit changes the CD automatically according to the program, the recording also is paused automatically and no unnecessary recording (parts without sound) is made.
- When the possible recording time or the possible number of tracks on the MD is exceeded, "DISC FULL" will be displayed and the recording will stop.
- O.T.E. recording in combination with repeat playback is not possible.
- Eject the minidisc after completion of the recording.

Always eject the minidisc after completion of the recording.

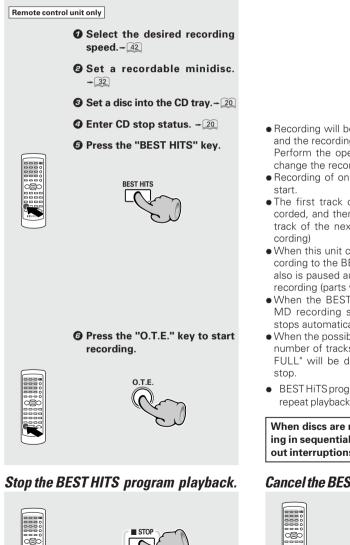
Interrupting a recording

When the STOP ■ key is pressed, the playback and the recording are ended.

Recording only the first track of selected CDs (BEST HITS program recording)

Only the first track of the set CDs will be recorded.

As it is possible to exchange the CDs in the other trays while one CD is being recorded, this can be used conveniently to continue recording the hits of single CDs.



- Recording will be done with the recording mode and the recording speed set in advance.
 Perform the operation of step 3 on page 33 to change the recording speed.
- Recording of only the first track of the CDs will start.
- The first track of the selected disc will be recorded, and then the unit will switch to the first track of the next disc. (BEST HITS program recording)
- When this unit changes the CD automatically according to the BEST HITS program, the recording also is paused automatically and no unnecessary recording (parts without sound) is made.
- When the BEST HITS program playback or the MD recording stops, the other operation also stops automatically.
- When the possible recording time or the possible number of tracks on the MD is exceeded, "DISC FULL" will be displayed and the recording will stop.
- BEST HiTS program recording in combination with repeat playback is not possible.

When discs are replaced sequentially, recording in sequential order can be continued without interruptions.

Cancel the BEST HITS program playback.

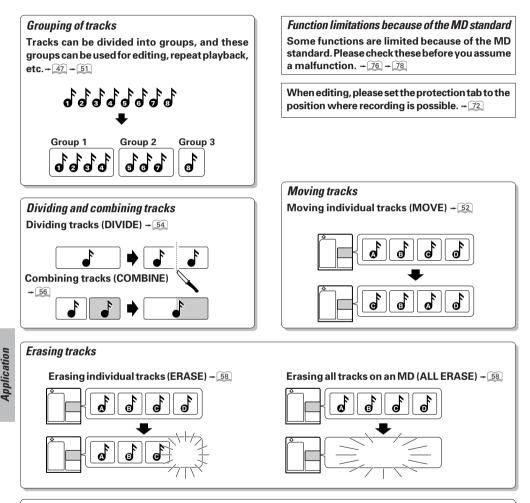


Application

46 MD Edit Functions

Selection of the type of edit function

When commercial minidiscs for recording are used, various types of editing can be performed after recording. Minidiscs with commercial software only for playback cannot be edited.



Assigning a name to a minidisc or a track (only remote control) $\rightarrow 60$

Copying or memorizing a title and assigning it to a different minidisc or track (TITLE MEMO) (only remote control) + [3] Names can be entered simply by selecting characters sequentially from the characters shown on the display. As the entered titles have compatibility between models, they will be displayed when that minidisc is set to a different MD recorder (player). (Depending on the types of characters and the number of characters which can be displayed, there may be some limitations for the title compatibility.)

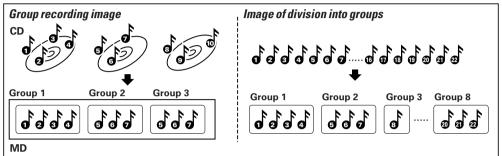
Deletion of the edited contents (EDIT CANCEL) - 64

HD-5MD/FN

Recording by groups (GROUP)

As this unit permits long-play recording with 2x and 4x of the standard capacity, a large number of tracks can be recorded onto one MD. When setting for group recording is done before MD O.T.E. recording (page 42), recording by groups, for example by artist or by album, becomes possible. These groups also can be selected for playback, editing by group, repeat [playback, etc.

Grouping also can be done for a recorded MD. (→ 🙉)



Main unit only

O Select "GROUP MAKE ?" as follows.

- 1) Press the "menu" key.
- 2 Select "GROUP MAKE ?" with the "volume/multi control" knob.
- ③ Press the "set" key.



Ø Select "GROUP MAKE ON" as follows.

- 1) Select "GROUP MAKE ON" with the "volume/multi control" knob.
- 2 Press the "set" key.



• Perform the operation for "All tracks of a CD can be recorded by one-touch recording (normal speed, 4x speed) (all tracks O.T.E.)" and start recording. $(\rightarrow 42)$



When the "volume/multi control " knob is turned, switching is done as follows.



Return to the original status is made when no operation is performed within 20 seconds.

• The group recording setting remains unchanged until it is changed again.



- All tracks from the track with which O.T.E. recording was started to the last recorded track will be one group.
- When the MD to be used for the recording already has 99 groups registered, group recording will not be executed even when the group recording setting is ON.
- When an MD recorded on different equipment compatible with the group function is used on this unit, it may not operate correctly.
- When an MD with group recording is played on equipment not compatible with the group function, the tracks will be played in the order in which they have been recorded.
- When an MD with group recording is edited on other equipment, it may not operate correctly.

Dividing a recorded MD into groups

Create and register groups of consecutive tracks. Up to 99 groups can be created. Even a single track can be made a group.

Select MD and obtain stopped condition. Remote control unit only Press the "TRACK EDIT" key. TRACK FDIT Press the << P.CALL>> keys repeatedly to select "EDIT GROUP" and press the "SET" key. Press the "SET" key when "GRP START ?" flashes. Ø Press the I◄◄ P.CALL ►►I kevs to select the first track of the group and press the "SET" key. to select the last track of the group and press the "SET" key. O Press the "ENTER" key to determine the group. After editing has been com-

pleted, press the **A** key to eject the minidisc.

- When the editing is to be abandoned, press the "TRACK EDIT" key to stop the editing and to return to the original condition.
- When an item which cannot be edited is selected, an 🔅 will be shown at the beginning of the display.
- MD edit mode is reached.



Return to the original status is made when no operation is performed within 20 seconds.









 When all tracks already have been registered in groups, or when there are already 99 groups, no more groups can be created. Even when there are fewer than 99 groups, it may not be possible to create a new group when much character information has been entered for the MD.

The editing may be aborted when the MD is removed or the power is switched off while "EDIT NOW" is being displayed.

 Remove the minidisc after the editing information has been written to the minidisc with display of "MD WRITING".

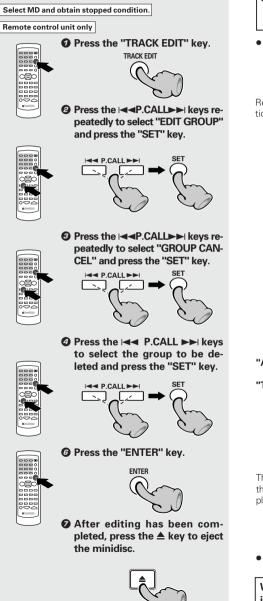
While "MD WRITING" is displayed, information is being written to the minidisc, and the unit should not be subjected to vibrations or shocks.



Deleting group information

Information in regard to group registration can be deleted.

The information and the group name for the selected group or all groups of the MD can be erased.



- When the editing is to be abandoned, press the "TRACK EDIT" key to stop the editing and to return to the original condition.
- When an item which cannot be edited is selected, an ⋈ will be shown at the beginning of the display.
- MD edit mode is reached.



Return to the original status is made when no operation is performed within 20 seconds.





"ALL GROUP" :

All groups on the MD will be deleted.

"Track No. ___ Track No."

The information for the selected group will be deleted.



The editing may be aborted when the MD is removed or the power is switched off while "EDIT NOW" is being displayed.

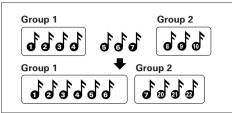
								R	00	30	10	5	3	,	0 (-d E)	
С	Ö	M	p	L	Е	T	E							10]	

• Remove the minidisc after the editing information has been written to the minidisc with display of "MD WRITING".

While "MD WRITING" is displayed, information is being written to the minidisc, and the unit should not be subjected to vibrations or shocks. Application

Changing the range of a group

The range of an already registered group can be changed.

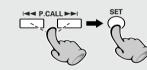


Select MD and obtain stopped condition.

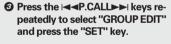


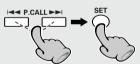
Press the "TRACK EDIT" key.
TRACK EDIT

Press the I◄◀ P.CALL ►►I keys repeatedly to select "EDIT GROUP" and press the "SET" key.



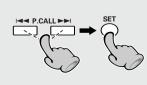






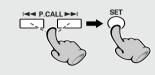
Press the I P.CALL >> I keys to select the group to be changed and press the "SET" key.





- When the editing is to be abandoned, press the "TRACK EDIT" key to stop the editing and to return to the original condition.
- When an item which cannot be edited is selected, an ⋈ will be shown at the beginning of the display.
 - Press the I < P.CALL >> I keys repeatedly to select the first track number of the group and press the "SET" key.







The characters will scroll and the group title numbers will be displayed.

When the track number is not to be changed, press the "SET" key in this condition.

Tracks registered to a different group can not be selected.

⑦ Press the I◄◄P.CALL►►I keys repeatedly to select the last track number of the group and press the "SET" key.



When the track number is not to be changed, press the "SET" key in this condition.

Tracks registered to a different group can not be selected.

Press the "ENTER" key to determine the group.

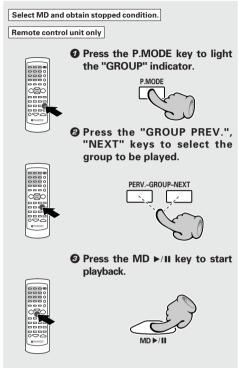
The editing may be aborted when the MD is removed or the power is switched off while "EDIT NOW" is being displayed.

Ø After editing has been completed, press the ≜ key to eject the minidisc.

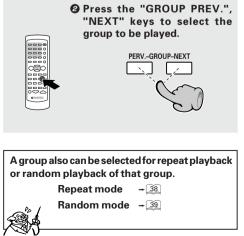
 Remove the minidisc after the editing information has been written to the minidisc with display of "MD WRITING".

50

A group of the MD can be selected to play only the tracks of that group



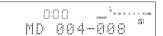
Playback of a different group during playback



For a minidisc with group settings, the mode will change as shown below each time the **"P.MODE"** key is pressed.



Group mode
 Program mode
 Cancel



The characters will scroll.

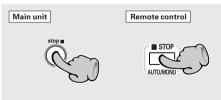




When an MD with group recordings is played on equipment not compatible with the group function, numbers or symbols may be displayed in the disk name and correct display may not be possible. In such a case, it should be noted that the group information will be lost when the disk name is edited on such equipment not compatible with the group function.

• When an MD recorded on different equipment compatible with the group function is used on this unit, it may not operate correctly.

To stop group playback



Return to normal playback

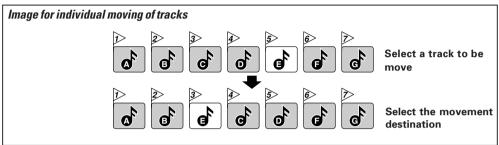
Press the "P.MODE" key repeatedly while in stop condition, until "GROUP" goes out.



Moving individual tracks (MOVE)

Tracks can be moved to (inserted at) any desired position. When the rearrangement has been completed, all track numbers automatically will be renumbered consecutively. Changing to the desired track order is possible by repeated MOVE operations.

Tracks divided into groups also can be moved. In that case, the track will be registered with the same group as the immediately preceding track at the new position. When the immediately preceding track at the new position is not registered to a group, the moved track also will not belong to any group.



Perform the operation after the display of "GROUP" and "PGM" has been extinguished.

Remote control unit only



TRACK EDIT

Confirm that "EDIT TRACK" is being displayed and press the "SET" key.



Press the AP.CALL keys repeatedly to select "MOVE ?".





- When the editing is to be abandoned, press the "TRACK EDIT" key to stop the editing and to return to the original condition.
- When an item which cannot be edited is selected, an 🔅 will be shown at the beginning of the display.
- MD edit mode is reached.

Return to the original status is made when no operation is performed within 20 seconds.



• When something else is being displayed, press the I = P.CALL >> I keys to switch, and then press the "SET" key.



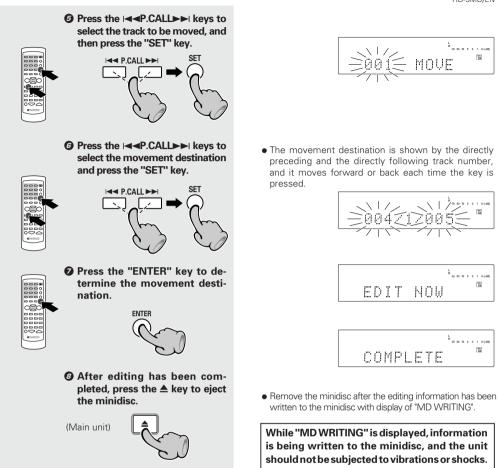
Continued on next page

53 **MD Edit Functions**

HD-5MD/FN

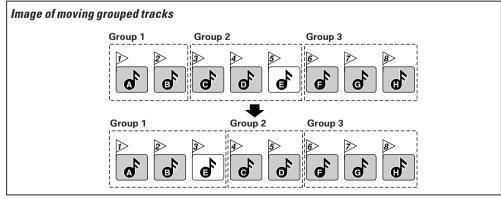
間

間



Application

Even after minidisc editing has been completed, it is possible to delete the editing up to that point and to return to the condition at the time of disc insertion. - 64



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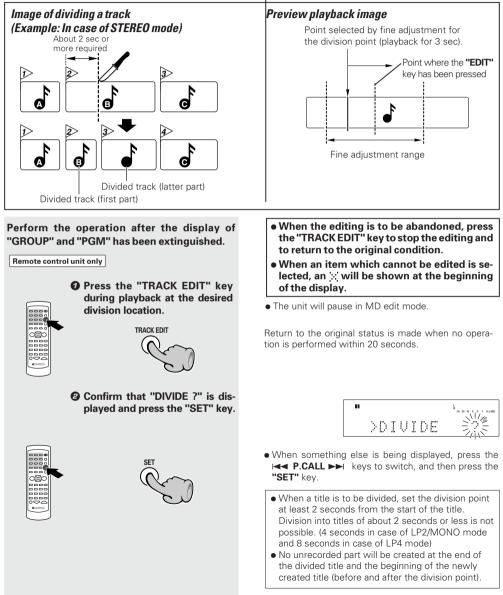
Dividing tracks (DIVIDE)

54

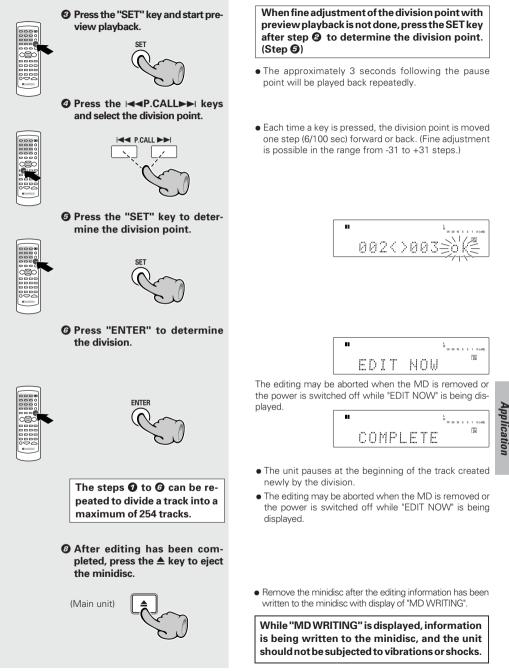
Application

Tracks can be divided by adding a track number (track number) somewhere in a track. When a track track number is added at a position you like, this is convenient for skipping to that position at the time of playback. The tracks after the divided track will be renumbered automatically in consecutive order. The preview function can be used for repeated listening to the part where the track is to be divided in order to perform fine adjustment.

Tracks registered in a group also can be divided.



Continued on next page



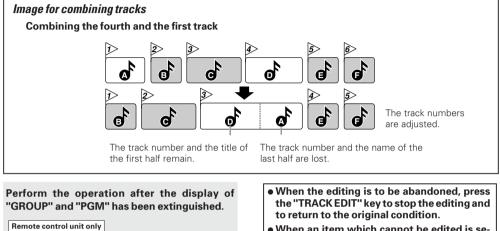
Even after minidisc editing has been completed, it is possible to delete the editing up to that point and to return to the condition at the time of disc insertion. $\rightarrow \boxed{64}$

HD-5MD/EN

Combining tracks (COMBINE)

Two tracks can be combined to one track. It is possible to combine several tracks or a track with fine subdivisions. After tracks have been combined, all track numbers will be renumbered consecutively.

As long as the tracks are next to each other, they can be combined even when they belong to different groups. The combined track is registered to the group of the first part.



 Press the "TRACK EDIT" key while playing the track to be at the beginning after combining.

Press the I P.CALL I keys repeatedly to select "COMBINE ?".

- When an item which cannot be edited is selected, an 🔅 will be shown at the beginning of the display.
- The unit will pause in MD edit mode.



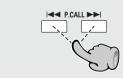
Return to the original status is made when no operation is performed within 20 seconds.





Continued on next page

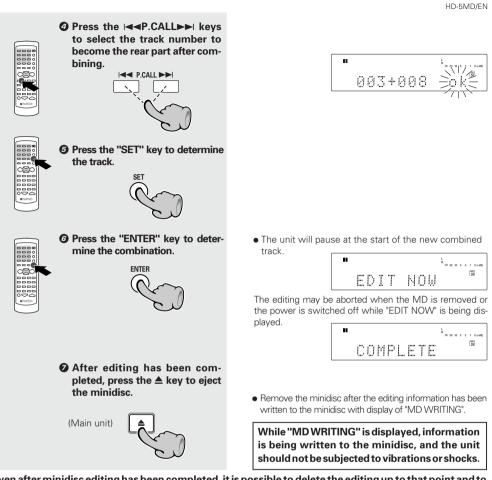




Press the "SET" key.





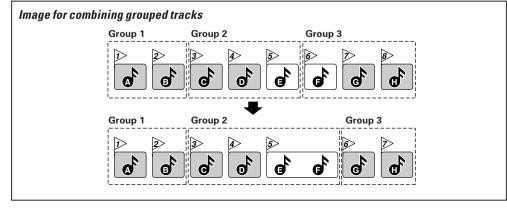


57

Application

MD Edit Functions

Even after minidisc editing has been completed, it is possible to delete the editing up to that point and to return to the condition at the time of disc insertion. -

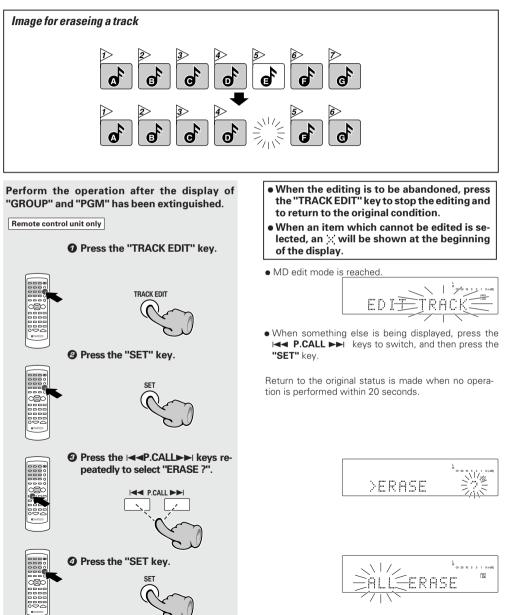


HD-5MD/EN

Erasing individual tracks (ERASE)/Erasing all tracks on an MD (ALL ERASE)

While the unit is stopped, it is possible to erase all tracks or only a selected track. When one track is erased, the track numbers of the tracks after it all will be reduced by one.

It is also possible to erase tracks registered in a group.



Continued on next page

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Ø Press the I◄◄P.CALL►►I kevs to select the track number to be erased A P.CALL Press the "SET" key to determine the track. SET **O** Press the "ENTER" key to determine the erasure. ENTER After editing has been completed, press the **A** key to eject the minidisc. (Main unit)

Even after minidisc editing has been completed, it is possible to delete the editing up to that point and to return to the condition at the time of disc insertion. -

- Select "ALL ERASE" to delete all tracks on an MD.
- In case of operation during playback, only erasing of the track being played can be selected.





• The unit will pause at the start of the title following the erased track.



The editing may be aborted when the MD is removed or the power is switched off while "EDIT NOW" is being displayed.



 Remove the minidisc after the editing information has been written to the minidisc with display of "MD WRITING".

While "MD WRITING" is displayed, information is being written to the minidisc, and the unit should not be subjected to vibrations or shocks. Application

HD-5MD/EN

Assigning a title (name) to a minidisc or a track

It is possible to give a title to a minidisc or a track. The same method can be used to change or erase a title which has been entered. When ON has been selected for the STAMP function in extended recording mode (LP2 or LP4), LP: will be displayed automatically in front of the title.

It is also possible to give a title to a group. (Group title)

In addition, there is a memo function for storing characters for repeated input.

Preparations for assigning a title Assigning a disc title:

A title can be assigned when the unit is stopped in group playback mode. If "GROUP" or "PGM" is lit, press the P.MODE key to make it go out.

Assigning a group title:

A title can be assigned in stopped condition in group playback mode.

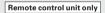
- ① Press the P.MODE key and light the "GROUP" indication.
- ② Press the PREV. or the NEXT key to select the group which is to be given a group title or a track title.

Assigning a track title:

In normal stop mode, titles can be given to all tracks. When the unit is stopped in group playback mode, titles can be given to the tracks in the group.

Input of a title memo:

Title memo can be selected in any of the above modes.





Press the "TITLE INPUT" key.

② Press the I◀◀P.CALL►►I keys repeatedly to select the title to be edited.



When the editing is to be abandoned, press the "TITLE INPUT" key to stop the editing.

• Title input is not possible while the minidisc read/write indication is flashing.



"...." will be displayed when no name has been assigned.

• The name to be edited will be switched each time the key is pressed.

-	"DISC"	:	(DISC TITLE)
	"001"	:	(TRACK TITLE)
	"002"	:	(TRACK TITLE)
	1		
	1		
	"[1]"	:	(TITLE MEMO 1)
	"[2]"	:	(TITLE MEMO 2)
-	"[3]"	:	(TITLE MEMO 3)

When a group has been selected, the group number will be displayed.

Continued on next page

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MD Edit Functions 61

HD-5MD/EN



Press the "SET" key to determine the track (or disc, title memo number) to be given a title.



Ø Enter the title.

① Press the DISPLAY/CHARAC. key repeatedly to select the character group.





Press the character input keys (10keys) to select the character.





③ Press the "SET" key to determine (enter) the character.





4 Repeat the steps 1 to 3.









The character groups

The character groups are as shown below.

"Aa" group

A to z, symbols, and name memos ("[1]", "[2]", "[3]")

"12" group

0 to 9 and symbols

When the same key is pressed repeatedly, the character will change.

Example: Pressing

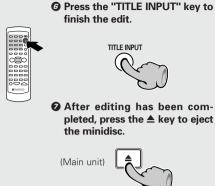
Each time the key is pressed, the character will change as shown: A \rightarrow B \rightarrow C \rightarrow a \rightarrow b \rightarrow c

- The input location (cursor) can be moved left and right with the ◄◄, ►► keys.
- Input errors can be deleted with the "CLEAR/DE-LETE" key.
- Press the "TIME/SPACE" key to enter a space.
- The input is determined when a different character key, the ►► key, the **"DISPLAY/CHARAC."** key, etc. is pressed.

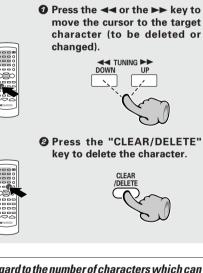


- After the litle display has been scrolled, return is made to the display of step ② with the next title selected.
- When the power is switched off (standby) or the "TITLE INPUT" key is pressed to cancel the setting, the entered contents will be erased.

Continued on next page



Deleting or changing characters



In regard to the number of characters which can be entered

A maximum of 1792 characters, max. 80 per track, can be entered for the entire MD.

A space requires the same amount of data as a character.

When deleting a title, do no enter spaces, but delete the characters (press the "CLEAR/DE-LETE" key). When the steps ② to ⑤ are repeated before advancing to step ③, titles (disc title and track titles) can be given to the entire disc.

• Remove the minidisc after the editing information has been written to the minidisc with display of "MD WRITING".

While "MD WRITING" is displayed, information is being written to the minidisc, and the unit should not be subjected to vibrations or shocks.

• When a character is to be inserted without deleting a character (step {2}), set the cursor to the character directly following the desired insertion location.

• When all characters are to be deleted, this can be done by pressing the CLEAR/DELETE key repeatedly.

In regard to the key functions

◄< or ►► key:</p>

Shifts the position of the cursor.

CLEAR/DELETE key:

Deletes the character at the cursor position and advances the characters after this position by one space. Names can be deleted easily by pressing the key repeatedly (or by keeping it pressed).

TIME/SPACE key:

Inserts a space.

Use of title memo (TITLE MEMO)

Characters to be entered repeatedly can be stored in the title memos 1, 2, and 3 ([1], [2], or [3]), and can be called at the time of input for easy input.

For example, in case of input of "SONG:A", "SONG:B", "SONG:C":

Store "SONG:" in the title memo 1, and at the time of track title input, "SONG:A" will be entered with title memo 1 (indication of [1]) and input of "A".

Input of a name memo

• Select title memo [1], [2], or [3] during the title editing procedure.

(Steps 2) and 3) on page 60)

"[1]" : (title memo 1) "[2]" : (title memo 2) "[3]" : (title memo 3)

O Enter the characters.

(Steps 2) and 5) on page 61)

Use of a title memo

- Select the character group "Aa" with title input operation.
- Press the character key (numeric key) "1" and select [1], [3], or [3].
- O Press the "SET" key

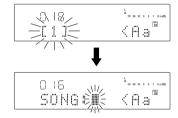
Name editing character table

The following types of letters and symbols can be selected.

Group

1	space [1] [2] [3]	1
2ABC	ABC abc or abc ABC	2
3DEF	DEF def or def DEF	3
4GHI	GHI ghi or ghi GHI	4
5JKL	JKL jkl or jkl JKL	5
6MNO	MNO mno or mno MNO	6
7PQRS	PQRS pqrs or pqrs PQRS	7
8TUV	TUV tuv or tuv TUV	8
9WXYZ	WXYZ wxyz or wxyz WXYZ	9
0		0
+10' , :	',:?!;.*_`\$ space	
+100&()-	& () - / + * = < > # % @	

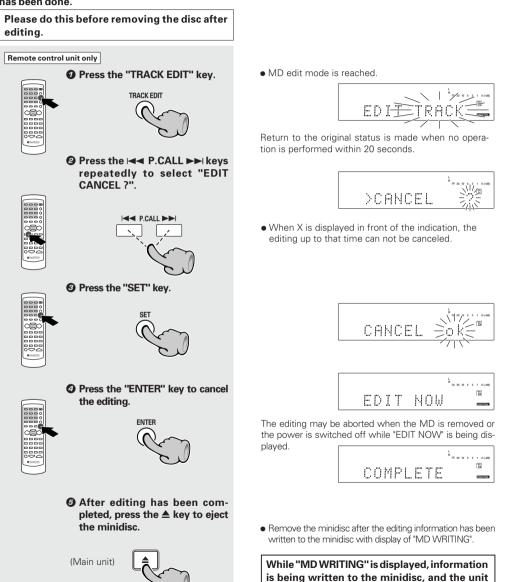
"Aa"



"12"

Deletion of the edited contents (EDIT CANCEL)

When the following operation is performed in stopped condition, all editing performed since insertion of the disc can be canceled. Cancellation will not be possible once the disc has been removed or recording has been done.



should not be subjected to vibrations or shocks.

Application

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Setting auto power save (A.P.S.)

When the auto power save function is set to ON, the power is switched off (standby) automatically when about 30 minutes without any operation have passed after the end of CD or MD playback.

O Select "A.P.S, SET ?" as follows.

1) Press the "menu" key.



 Press the menu key.
 Select "A.P.S, SET ?" with the "volume/multi control" knob

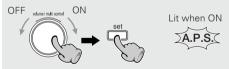
When the "volume/multi control" knob is turned, switching is done as follows.

► "MD REC MODE ?" "GROUP MAKE ?" "TIME ADJUST ?" "DIMMER ?"

Return to the original status is made when no operation is performed within 20 seconds.

③ Press the "set" key.

O Turn the "volume/multi control" knob to select ON or OFF and press the "set" key.



Auto power save operates when there is no operation for about 30 minutes after the following events.

When the input is CD

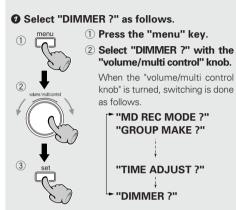
During stop

When the input is tuner, tape, or external input

When the volume/multicontrol level is the minimum level or mute.

Adjusting the brightness of the display part (DIMMER)

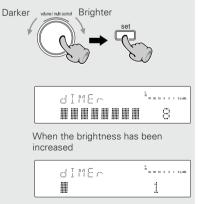
When the display is felt to be too bright or too dim at night etc., the brightness can be adjusted.



Return to the original status is made when no operation is performed within 20 seconds.

③ Press the "set" key.

Turn the "volume/multi control" knob to select the desired brightness and press the "set" key.



When the brightness has been decreased

 Adjustment is not possible when the power is off.

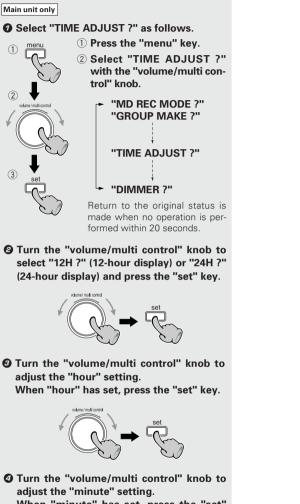
1

2

3

Application

As the clock is not only used to show the time of the day but also used in timer operations, be sure to set the clock in advance.



When "minute" has set, press the "set" key.



If you have made a mistake during the setting, start again from step 0.



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• When the "set" key in step 2 is pressed with a time signal, accurate setting can be made.

Timer operation

Sleep timer (SLEEP)

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

Timer playback (PROG. 1, PROG. 2)

Playback of the selected input source of the CD, TUNER or AUX input starts at the specified time.

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

When timer playback starts, the volume level increases gradually until the set volume level is reached.

Sleep timer (SLEEP)

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

Remote control unit only

Press the "SLEEP" key during CD playback, tuner reception, etc.





• The unit is turned OFF automatically after the set time has elapsed.

To cancel

Turn the unit OFF or press the SLEEP key until the sleep timer is canceled.

AM					9	n 00 30 10 5	3 1 0 (-dB)
	, ,					4 75	[m]
	21	i	Ľ.,	ŀ		16	DIGITAL

• Each press increases the timer period by 10 minutes. The sleep timer can be set up to 90 minutes.

 \rightarrow 10 \rightarrow 20 \rightarrow 30 70 \rightarrow 80 \rightarrow 90 \rightarrow Cancel —

The system has been set up so that the display is dimmed automatically while the sleep timer is activated.



When the power fails or the plug of the power cable is disconnected from the receptacle during power off (standby) after timer setting, the standby/timer indicator will flash green. In this case, repeat the time setting.

Adjust the clock before setting the timer → 🛐

HD-5MD/FN

Setting the timer program (PROG. TIMER)

In each of PROG.1 and PROG.2, the timer data including the operating period and played contents can be program and set to be activated or deactivated.

- Two timer settings can be reserved independently in two programs PROG.1 and PROG.2.
- 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.

1. Make preparations for the play.

Plaving the auxiliary To listen to CD To listen to MD To listen to radio To record input source Make timer setting of Insert discs. Insert a MD. The station should be Preparations for asthe component con- (Program playback is (Program playback is preset prior. - 30 signing MD recordnected to the AUX or not possible.) $\rightarrow 20$ not possible.) + 22 ing - 32 TAPE input jacks. - 30

2. Set the timer setting program number.

Main unit only

- **O** Press the "menu" key.
- Turn the "volume/multi control" knob and select "TIMER SET?".

Press the "set" key to confirm.

O Turn the "volume/multi control" knob and select "PROG.1 SET (or 2)".

Press the "set" key to confirm.

3. Select EVERYDAY or ONETIME execution of the programed timer.

Turn the "volume/multi control" knob and select "EVERYDAY" or "ONE TIME".

Press the "set" key to confirm.

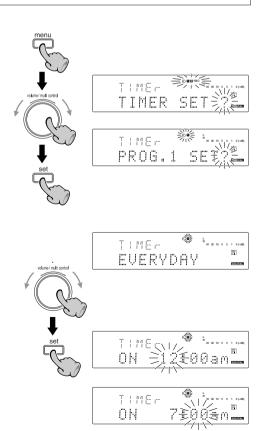
4. Set the ON time.

• Turn the "volume/multi control" knob to adjust the "hour" setting.

When "hour" has set, press the "set" key.

9 Turn the "volume/multi control" knob to adjust the "minute" setting.

When "minute" has set, press the "set" key.



Adjust the clock before setting the timer - 👀

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Application

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5. Set the OFF time.

O Turn the "volume/multi control" knob to adjust the "hour" setting.

When "hour" has set, press the "set" key.

@ Turn the "volume/multi control" knob to adjust the "minute" setting.

When "minute" has set, press the "set" key.

6 Select "PLAY" or "ALPLAY"

Turn the "volume/multi control" knob and select "PLAY" or "AI PLAY".

Press the "set" key to confirm.

7. Make the desired reservation (Timer play)

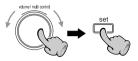
- **O** Turn the "volume/multi control" knob to select the volume at the time of timer ON, then press the "set" key to confirm.
- **9** Turn the "volume/multi control" knob to select the source to be play,
 - 1 "TUNER" : (Broadcasts)
 - (2) "CD"
 - ③ "MD"
 - ④ "AUX" : (External input / video, etc.)
 - (5) "TAPE"
 - 6 "DIGITAL IN"

Press the "set" key to confirm.

- When TUNER has been selected, turn the "volume/multi control" knob to select the preset number and press the "set" key to confirm.
- **O** Press the "set" key to confirm the source.

Timer setting will be completed and "COMPLETE" will be displayed.



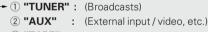




r► ① "PLAY" : (Timer play) ② "AI PLAY": (Timer play with gradually increasing volume)

7. Make the desired reservation (Timer recordina)

- **O** Turn the "volume/multi control" knob to select the volume at the time of timer ON, then press the "set" key to confirm.
- **2** Turn the "volume/multi control" knob to select the source to be record.



- (3) "TAPE"
- 🕨 ④ "DIGITAL IN"

Press the "set" key to confirm.

- When TUNER has been selected, turn the "volume/multi control" knob to select the preset number and press the "set" key to confirm.
- **O** Turn the "volume/multi control" knob to select the recording mode.
 - ► ① "STEREO"
 - 2 "LP2"
 - 3 "LP4"
 - + ④ "MONO"
- **O** Press the "set" key to confirm the source. Timer setting will be completed and "COMPLETE" will be displayed.

Continued on next page

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8. Put the unit in standby mode.



When the timer setting has been completed, confirm that the power is off (standby).

Remote control unit only

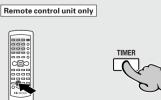




```
Application
```

When timer operation is not desired

While the power is on, press the TIMER key on the remote control to extinguish " \bigcirc ".



- The standby/timer indicator lights green.
- The SLEEP timer cannot be used when the timer function is being used for playback.
- When the time has not been set, the timer function cannot be used.
- The timer function will not operate when the same time is set for the ON time and the OFF time.

- The PROG. contents set last will be executed.
- Make the preparations for CD.

• The PROG. contents will be kept as long as no resetting is done.



- When the power fails or the plug of the power cable is disconnected from the receptacle during power off (standby) after timer setting, the standby/timer indicator will flash green. In this case, repeat the time setting.
- When the standby/timer indicator flashes green after completion of program timer recording, the recording may not have been possible. In that case, set the time again.



Maintenance

Maintenance of the unit

When the front panel or case becomes dirty, wipe with a soft, dry cloth. Do not use thinner, benzine, alcohol, etc. for these agents may cause discoloration.

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 and restart the operation after the condensation has dried up.

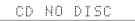
Be specially cautious against condensation in a following circumstances:

When this unit is carried from one 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.

∂ Remove the CD and MD from the unit. **∂** Press the CD ►/II key.



③ Press the MD ►/II key.



Wait for some time and verify that the display appears as above.

G Wait a few seconds and turn the unit OFF.

In regard to contact cleaner

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.

Memory backup function

Stored contents which are cleared immediately when power plug is unplugged from power outlet :

Clock display N.B. function

Stored contents which will back-up after power plug is unplugged from power outlet:

State of power (on or standby), A, P, S, Last input selection, AUX level, Volume control value, Balance control, Receiving band, Frequency, Preset station, Program Timer, TONE

MD section

When the power is off (standby) or the power cable is disconnected from the receptacle, the memory contents will be held for about three days. In case of an extended power failure, disconnection of the power cable, etc., the information in regard to recording or editing (recorded when the minidisc is removed) may be lost or destroyed before recording to the minidisc. Once this information has been lost, it cannot be recovered.

After recording or editing, always remove the minidisc to have this information recorded.

HD-5MD/FN

Disc handling precautions

Handling



Hold the disc so that you do not touch the playing surface.

Label side Playing side

Sticker



Do not attach paper or tape to either the playing side or the label side of the disc.

Sticky paste

Cleaning



If there are fingerprint marks or foreign matter found on the disc, lightly wipe the disc with a soft cotton cloth (or similar) from the center of the disc outwards in a radial manner.

Storage

When a disc is not to be played for a long period of time, remove it from the player and store it in its case.

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 malfunction.

Discs which can be played with this unit

CD (12 cm, 8 cm), CD-R, CD-RW, 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.

Disc accessories

The disc accessories (stabilizer, protection sheet, protection 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.

Handling of MD

As the MD 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 MDs in places where

the temperature and/or humidity are extremely high (for example, in places subjected 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

Periodically wipe off dust and dirt on the cartridge with a dry cloth.

Note on disc accessories

Do not use lens cleaner for this may lead to malfunction of the unit.

Caution on MD-Clip data

Do not attempt to record or edit a disc in which MD-Clip data (still images, etc.) have been recorded. Otherwise, the Clip data may be lost.

Note on the cartridge labels

Apply each label firmly to every corner so that it will not peel off.

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.

Back side of the disc

Write protect tab Slide open. Slide close.

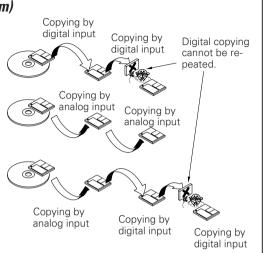
(Recording disabled)

Slide close. (Recording enabled)

HD-5MD/EN

SCMS (Serial Copy Management System)

For copyright protection, the serial copy management system specifies that recording of digital signals as digital signals between various digital audio devices shall be possible only for the first generation of recordings.



In regard to the sampling frequency

Normally, there are the three following types of digital signals, and they are called sampling frequencies. The sampling frequencies are divided as follows according to the type of the digital equipment.

48 kHz : Standard mode for DAT, B-mode transmission of BS tuners, etc.

44.1 kHz : Standard mode for DAT, CD, MD, etc.

32 kHz : Standard and long-time mode for DAT, A-mode transmission of BS tuners, etc. (DAT: Digital Audio Tapedeck)

As this unit has a built-in sampling rate converter, 48 kHz and 32 kHz digital signals can be recorded converted to 44.1 kHz.

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 key on the main unit depressed, plug the power cord again.

Symptom	Cause	Remedy	
Sound is not produced.	 The speaker cords are disconnected. The volume control of this set is not adjusted properly. The MUTE switch of remote control unit is switched ON. The headphone plug is inserted into the jack. 	 Connect properly referring to "System connection". Set the sound volume to an appropriate Switch MUTE OFF. Unplug the headphone plug. 	- 8 - 17 - 16
The "standby/timer" indicator blinks in red and no sound is output.	• The speaker cord is short-circuited.	• Turn power off and re-connect the speaker cord.	+ 9
The "standby/timer" indicator blinks in green.	 There was a power failure. The power cord was unplugged from the outlet. 	Adjust the present time again.Adjust the present time again.	→ 66 → 66
No sound from the headphones.	• The headphone plug is inserted incompletely.	 Insert correctly. 	→ 16
Sound is not produced from the left or right speakers.	 The speaker cords are disconnected. Left/right volume balance is not adjusted properly. 	 Connect properly referring to "System connection". Adjust the left/right volume balance. 	→ 8 → 17
Power is suddenly interrupted.	• The A.P.S. function is activated	Cancel the A.P.S. function.	+ 65
The clock display blinks without chang- ing the figures.	• The power plug was unplugged from the outlet while the power switch was ON, or there was a power failure.	 Adjust the present time referring to "Clock adjustment". 	→ 66
Timer operation is not possible.	 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 same setting is used for the timer ON time and the timer OFF time. The timer execution was not set up. 	 Adjust the present time referring to "Clock adjustment". Set the timer ON time and OFF time. Set the timer OFF time later than the timer ON time. Refer to "Setting the timer program (PROG. TIMER)" and select "ON" for "PROG. 1" or "PROG. 2". 	- 66 - 68 - 69 - 69

Amplifier section/Speakers

Knowledge

HD-5MD/EN

Tuner section

Symptom	Cause	Remedy
Radio stations cannot be received.	 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. The space between radio channels is not suitable for the area where you live. 	 Connect antennas. Select a band. Tune to the frequency of the desired station. Refer to "Channel space setting" and reset the channel space.
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 can- not be received by pressing 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. 25 Preset stations again. 25

CD player

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". Try another disc. Refer to "Caution on condensation" and remove the condensation by evaporation. IZ2
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. → 20 Press the CD ≻/II key. → 20 Clean the disc referring to "Disc handling precautions". → 22 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". Try another disc. Install the unit in a place not subject to vibrations.

Remote control unit

Symptom	Cause	Remedy	
Remote control operation is not pos- sible.	 Batteries are exhausted. 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. 	+ 15 + 15
	 There is no CD or MD set in the component to be played. 	 Set a CD or MD in the component to be played. 	+ 22

Knowledge

MD section (MD standard symptoms etc.)

Symptom	Cause
"DISC FULL" is displayed although the max. record- able time has not been reached.	 More than 255 titles (track No. 256 and up) can not be recorded even when the max. recordable time has not been reached. (Recording may be impossible even before track No. 256 has been reached.) When emphasis ON/OFF etc. is repeated often within a title, this is handled in the same way as a break between titles, and "DISC FULL" will be displayed independent of the time and the number of titles. In this case, the main timer indication on the display becomes "0:00".
The recordable time does not increase when short titles are deleted.	 When the remaining time for the entire minidisc becomes less than 24 sec (MONO, LP2) or 48 sec (LP4), the main timer indication on the display becomes "0:00". When the total time of the deleted titles becomes more than 24 sec (MONO, LP2) or 48 sec (LP4), the indication of the recordable time changes. In case of a frequently edited minidisc, the remaining time may not increase even when a short title is erased.
Titles cannot be combined.	 Sometimes it may not be possible to combine titles created by editing. Titles with different recording modes cannot be combined.
The sum of the recorded time and the recordable time does not coincide with the total recording time for the MD.	 As recording is done with 4 sec (MONO, LP2) or 8 sec (LP4) as the min unit, the indicated time may not coincide.
"READING" is displayed for an abnormally long time.	 When a new minidisc for recording (completely unrecorded) is inserted, "READING" will be displayed longer than normal. When a minidisc is inserted which has been edited frequently or which has very many tracks, "READING" will be displayed longer than normal.
When titles created by editing are played back fast in forward or reverse direction, the sound becomes interrupted.	 Interrupted sound can be caused by a combination of various conditions, but this is no defect.
The track (title) numbers are not assigned correctly.	• Depending on the recorded source, the track numbers may not be assigned correctly.
Input of 1792 title characters is not possible.	• As the title input area is used in units of 7 characters, it may not be possible to enter 1792 characters.

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MD section (other symptoms)

Symptom	Cause	Remedy
No sound is heard even when the MD ▶/II key is pressed.	 No minidisc inserted. An unrecorded minidisc has been inserted. 	 Insert a minidisc. Insert a recorded minidisc or a playback- only minidisc.
Recording is not possible.	 The minidisc is write-protected. Digital recording of a source with digital copy prohibition by SCMS has been tried. The recording level is low at the time of AUX recording. A playback-only minidisc has been inserted. There is no recordable area. The source is set to MD. The recording time is too short. The unit is in menu mode. 	 Return the write protection knob to its original position or replace the disc by a recordable disc. Record after switching the recording mode to *ANALOG*. Adjust the input level. Insert a minidisc for recording. Replace the minidisc. Set to the source to be recorded. Record for at least one second. Press the set key to cancel menu mode.
The sound is distorted.	 The recording level has not been set at the time of recording. A minidisc recorded with distorted sound is being played back. 	 Adjust the recording input level 35 Record again.
There is much noise.	• External noise is being introduced.	• Move away from electric devices, TVs, etc.
A recorded MD cannot be played on other equipment (equipment not com- patible with ATRAC3).	LP2 or LP4 recording has been performed.	Record in STEREO or MONO.
4LP recordings have much noise.	• The disc has many scratches.	

MD section (list of displayed messages)

Display indication	Meaning	Countermeasures		
NO DISC	No minidisc inserted.	Insert a minidisc. → 24		
SCMS	Digital copying of a source with digital copy prohibition by SCMS has been tried.	Digital recording is not possible 73 Record after switching the recording mode - 35 to "ANALOG".		
UNLOCK	 The square optical connector has become disconnected or the connection is imperfect. An external source with a sampling frequency other than 38 kHz, 44.1 kHz, is 48 kHz is connected. 	 Connect the square optical connector cor- +11 Connect an external source with a sampling frequency suitable for this unit. 		
DISC FULL	 There is no recordable area. Recording of the 256th title has been tried. 	 Replace by a minidisc for recording. It is not possible to record 256 titles or more onto one minidisc. 		
FULL	• Title input in excess of the max. character number has been tried.	Refer to "In regard to umber of characters which can be entered". → 62		
BLANK DISC	• This is a blank minidisc with nothing re- corded on it.	• For playback, replace by a recorded minidisc.		
READING	• TOC *1, UTOC *2 information is being read.	• This is no defect.		
MD WRITING	• Various information is being written at the tome of editing or recording.	• This is no defect.		
UTOC ERROR	The TOC *1, UTOC *2 contents are abnor- mal.	 Perform "ALL ERASE". When this is not → 58 possible, replace the disc. 		
CAN'T EDIT	 Deletion of too short titles or other editing exceeding the limitations has been tried. The disc has been removed after recording or editing and the editing information has not been recorded. 	 Perform editing within the limitations. Press the ▲ key and remove the disc. 		
"ok" is flashing.	• This is the confirmation method asking "Is it OK to execute editing?".	 Editing will be executed when the ENTER key is pressed. 		
PROTECTED	• The minidisc is write-protected (PROTECT).	 Bring the minidisc to recordable condition (cancel the protection). → ĴĴ2 		
PLAY ONLY	• This is a play-only minidisc.	 Insert a minidisc for recording. 		
NOT AUDIO	• The input is a digital signal other than an audio signal.	Provide an audio digital signal as output from the connected external source.		
WAIT XX min.	After the start of CD double-speed record- ing, double-speed recording of the same disc has been tried within 74 minutes.	 Start double-speed recording after the indi- cated time has elapsed. 		
CAN'T PLAY	Playback of a minidisc which cannot be played because it is unrecorded or for other reasons has been tried.	 Replace by a minidisc which can be played back. 		
PL: SET	• Title input processing is performed with an increase in the track number.	• Set the LP: Stamp function to OFF.		

*1: All minidiscs have information called TOC (Table of Contents) recorded in addition to the audio signal. The TOC corresponds to the table of contents of a book, and it contains the information which cannot be rewritten out of the number of titles, the playback time, character information, etc.

*2: The information characteristic for a minidisc for recording, other than the TOC, is called UTOC.

This UTOC contains the information which can be rewritten out of the number of titles, the playback time, character information, etc.

Main unit

[Amplifier section]

Effective output power during STEREO operation		
(1 kHz, 10% T.H.D., at 6 Ω)	25 W + 25 W	
Rated output power during STEREO operation (DIN)		
(1 kHz, 0.7% T.H.D., at 6 Ω)	20W + 20 W	
Frequency response 30Hz ~ 60kHz	2 (+0dB, -3dB)	

[MD recordre section]

Laser	Semiconductor laser
D/A Conversion	1 Bit D/A converter
Sampling frequency	44.1 kHz
Audio compression	ATRAC, ATRAC3
Digital input	
Optical	15dBm ~ -21dBm

[CD player section]

Laser	Semiconductor laser	
D/A Conversion	1 Bit D/A converter	
Over sampling		
Frequency response 20Hz ~ 20kHz (+0.5dB, -1dB)		
Digital output		
Optical	15dBm ~ -21dBm	
-		

[Tuner section]

FM tuner section Tuning frequency range 87.5 MHz ~ 108 MHz

AM tuner section

(For other countries) Tuning frequency r

uning frequency range			
9 kHz step	531	kHz ~	1,602 kHz
10 kHz step	530	kHz ~	1,610 kHz

[General]

Power consumption	70 W
Dimensions	W: 220 mm
	H : 145 mm
	D: 356 mm
Weight (net)	6.8 kg

Speakers

Enclosure Bass-reflex type (Magnetically shielded)		
Speaker configuration		
Woofer	120 mm, cone type	
Tweeter	25 mm, dome type	
Impedance	6Ω	
Maximum input power	60 W	
Dimensions	W: 155 mm	
	H : 270 mm	
	D : 263 mm	
Weight (net)	4.5kg (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).

HD-5MD/FN

KENWOOD

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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