KENWOOD

COMPONENT SYSTEM/COMPACT HI-FI SYSTEM

XD-9580MD

INSTRUCTION MANUAL

KENWOOD CORPORATION

B60-2899-00 (MA) AP (T)
98/12 11 10 9 8 7 6 5 4 3 2 1 97/12 11 10 9 8 7 6 5 4 3

Before applying power

Units are designed for operation as follows.

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 13-Amp ASTA-approved (BS 1362) 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.

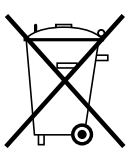
Safety precautions

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

CAUTION RISK OF ELECTRIC SHOCK DO NOT OPEN	**CAUTION: TO REDUCE THE RISK OF ELECTRIC SHOCK, DO NOT REMOVE COVER (OR BACK). NO USER-SERVICEABLE PARTS INSIDE, REFER SERVICING TO QUALIFIED SERVICE PERSONNEL.**
	THE LIGHTNING FLASH WITH ARROWHEAD SYMBOL, WITHIN AN EQUILATERAL TRIANGLE, IS INTENDED TO ALERT THE USER TO THE PRESENCE OF UNINSULATED "DANGEROUS VOLTAGE" WITHIN THE PRODUCT'S ENCLOSURE THAT MAY BE OF SUFFICIENT MAGNITUDE TO CONSTITUTE A RISK OF ELECTRIC SHOCK TO PERSONS.
	THE EXCLAMATION POINT WITHIN AN EQUILATERAL TRIANGLE IS INTENDED TO ALERT THE USER TO THE PRESENCE OF IMPORTANT OPERATING AND MAINTENANCE (SERVICING) INSTRUCTIONS IN THE LITERATURE ACCOMPANYING THE APPLIANCE.

REQUIREMENT BY NEDERLAND GAZETTE

Batteries are supplied with this product. When they empty, you should not throw away. Instead, hand them in as small chemical waste.



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

CLASS 1
LASER PRODUCT

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

XD-9580MD (En)

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Special features

An MD recorder is standard equipment

→ 22

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

Sampling Frequencies

→ 29

This unit has a sampling rate converter corresponding to digital sources (32 kHz, 44.1 kHz, 48 kHz).

SRS 3D stereo system

→ 66

This is an epochal system called Sound Retrieval System, which creates a three-dimensional sound space. The feeling of depth, the width of the sound field, the sound image positioning, etc. all are clearly improved, and the listening area also is widened. (Retrieval is used in the meaning of recovery or restoration.)

Convenient recording methods

→ 44

Various versatile recording functions are provided according to the use purposes.
When the cassette deck X-H9 (sold separately, not sold in some areas or countries) is connected, edit recording to tape is also possible from other sources.

- ÷One-touch edit : Recording of one CD or MD or one track by pressing a single key
- ÷TWIN RECORDING function : Simultaneous recording of one CD to MD and tape
- ÷BEST HITS function : Sequential recording of the first track of each CD onto MD or tape
- ÷Program recording : Any desired tracks can be recorded in the desired sequence
- ÷Time edit recording : Recording so that no track will be interrupted within the specified time (only from **CD** to **tape**)
- ÷Fade edit recording : Sequential recording from the first track (only from **CD** to **tape**)

Versatile tone and sound field adjustment

→ 67

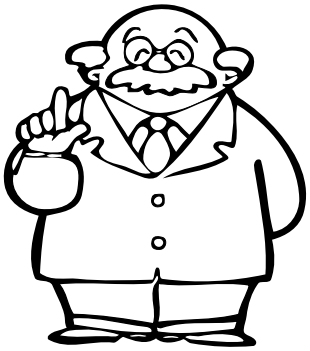
The tone can be selected according to the genre of the music played :
ROCK, POP, DISCO, JAZZ, CLASSIC.

Convenient timer functions

→ 71

In addition to the possibility of storing up to 2 timer programs in memory, the following functions are available.

- ÷AI timer : When the unit is turned ON by the timer, the sound level increases gradually.
- ÷O.T.T. : A timer with easy setting, which operates only once.
- ÷Sleep timer : Useful when you want to go asleep while listening to music.



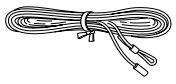
Unpacking

Unpack the unit carefully and make sure that all accessories are put aside so they will not be lost.
Examine the unit for any possibility of shipping damage. If your unit is damaged or fails to operate, notify your dealer immediately. If your unit was shipped to you directly, notify the shipping company without delay. Only the consignee (the person or company receiving the unit) can file a claim against the carrier for shipping damage.
We recommend that you retain the original carton and packing materials for use should you transport or ship the unit in the future.

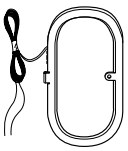
Accessories

Please confirm that the following accessories are present.

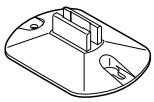
FM indoor antenna (1)



Loop antenna (1)



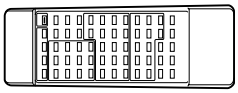
AM loop antenna stand (1)



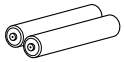
Optical fiber cable (1)

Speaker cords (2)

Remote control unit (1)



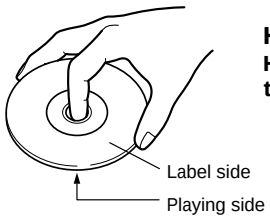
Batteries (R6/AA) (2)



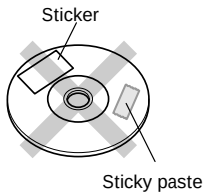
Parallel cord (1)

Handling of discs

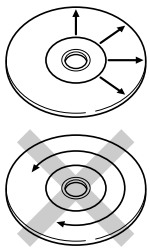
Disc handling precautions



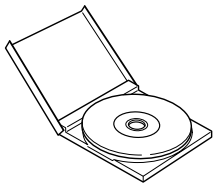
Handling
Hold compact discs so that you do not touch the playing surface.



Do not attach paper or tape to either the playing side or the label side of compact discs.
The paste left on the label surface after a sticker has been peeled off is a factor which may cause malfunction.
If the surface is sticky due to remaining paste, be sure to clean it with alcohol before use.



Cleaning
If fingerprints or foreign matter become attached to 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 CD player and store it in its case.

Discs which can be played with this unit

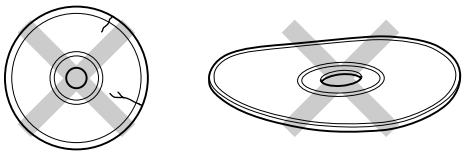
CD (12 cm, 8 cm), CDV (only the audio part)

÷With CD-G (CD Graphics) discs, this unit can play only the audio.

CD accessories

The CD 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.

Caution on disc used

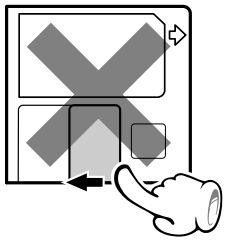


Never play cracked or warped disc.
During playback, the disc rotates at high speed in the player. Therefore, to avoid malfunction, never use a cracked or deformed disc or a disc repaired with tape or adhesive agent.

Handling of Mini Disc

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

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

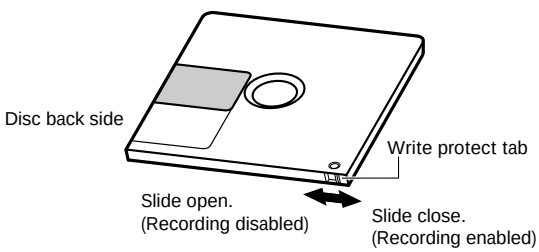


Storage position
Do not leave Mini Discs in place where the temperature and/or humidity are extremely high (for example, in a place subject to direct sunlight).

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

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

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



Connection of the System Accessories

This is the method for connection between the main unit and the accessories. Please connect correctly as shown in the figure.

Malfunction of microcomputer

If operation is not possible or erroneous display appears even though all connections have been made properly, reset the microcomputer referring to "In case of difficulty". → 79

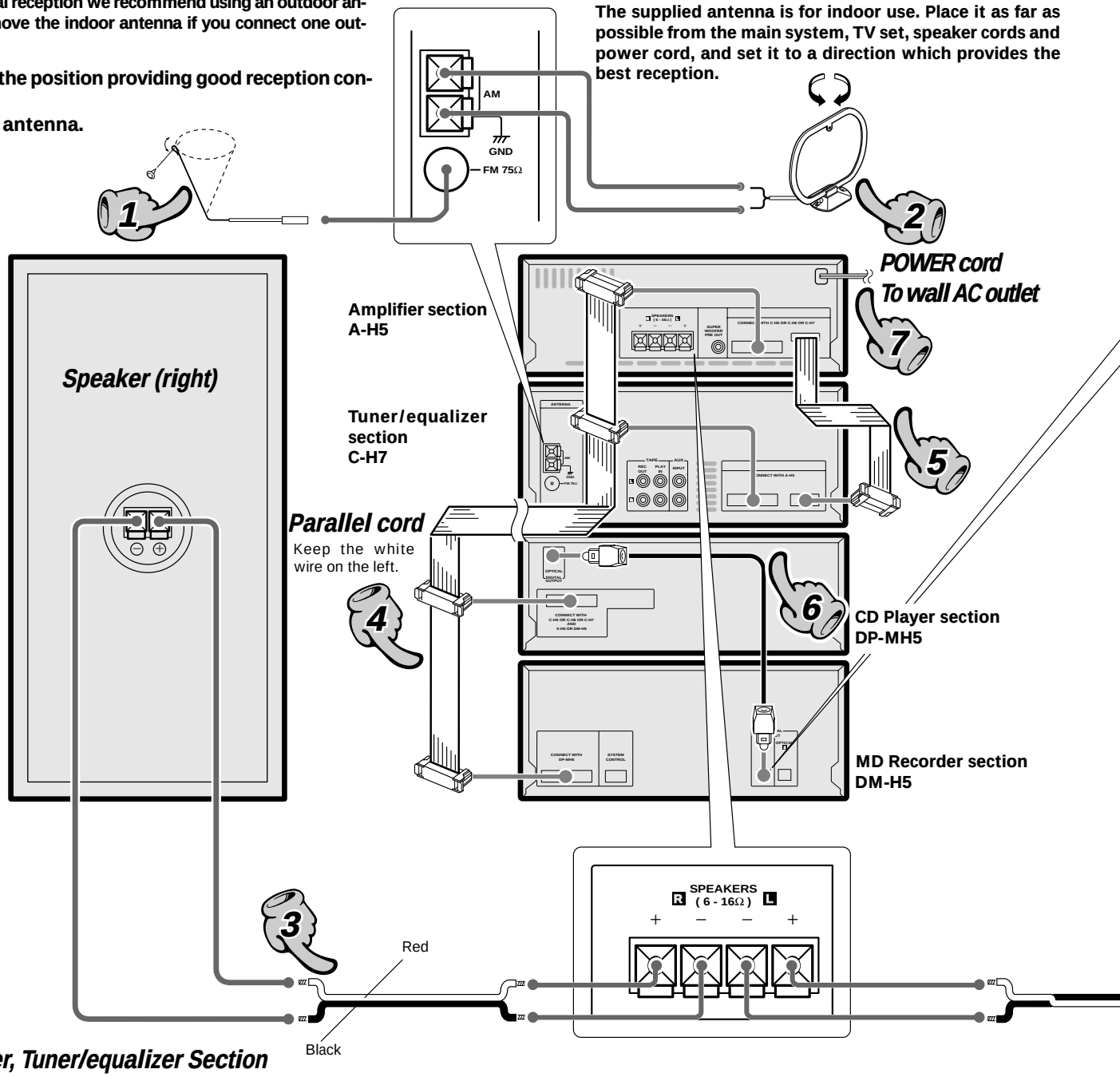
FM indoor antenna

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

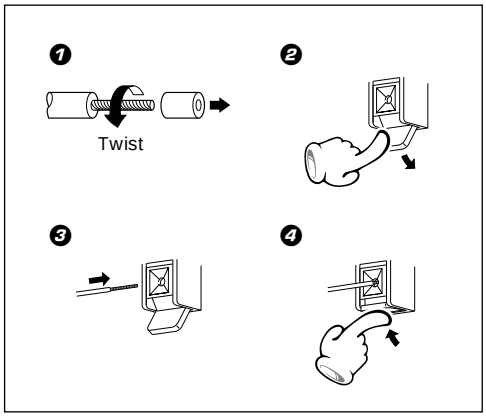
❶ Locate the position providing good reception condition.
❷ Fix the antenna.

AM loop antenna

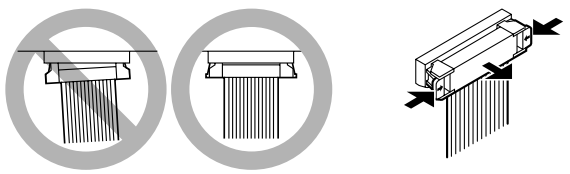
The supplied antenna is for indoor use. Place it as far as possible from the main system, TV set, speaker cords and power cord, and set it to a direction which provides the best reception.



Amplifier, Tuner/equalizer Section



Connection of parallel cord



÷ When connecting the parallel cord, insert the plug straight into the connector until it clicks to lock them securely.
÷ When connecting the parallel cord, the wire with white line should come to the left side end.
÷ When disconnecting the parallel cord, push in the two sides of the plug and pull it straight out.

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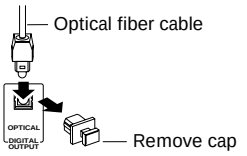
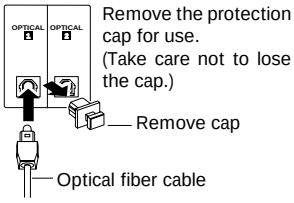
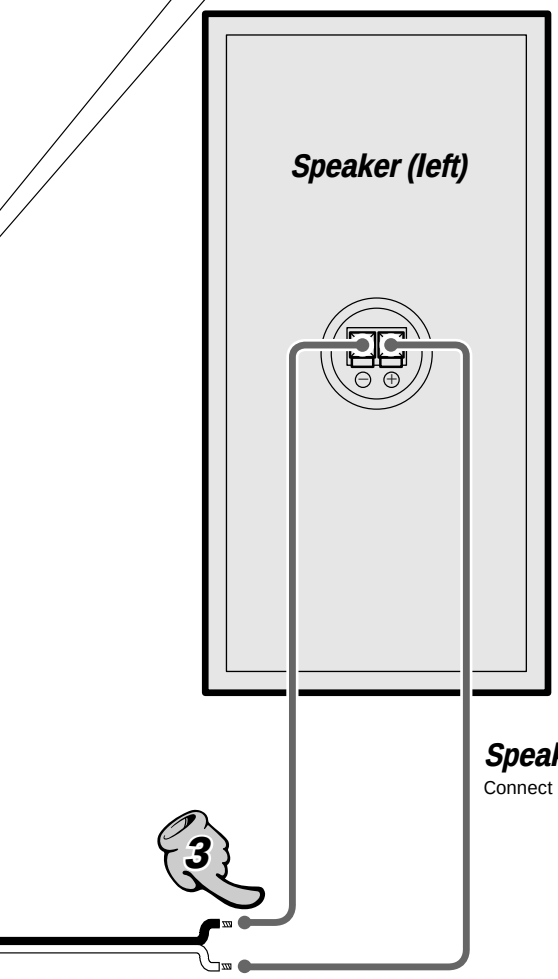
Digital output terminal
Remove the protection cap for use.
(Take care not to lose the cap.)



Digital input terminal



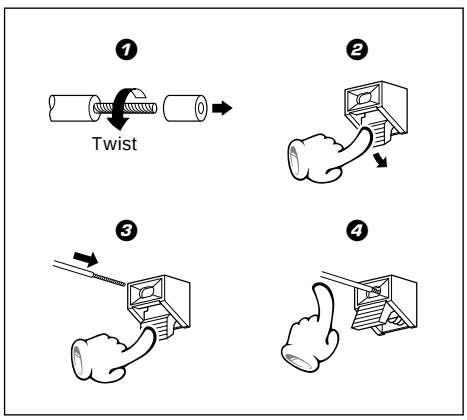
Always execute the connection between DP-MH5 and DM-H5 at this position.



Speaker cord

Connect correctly + to + and - to -.

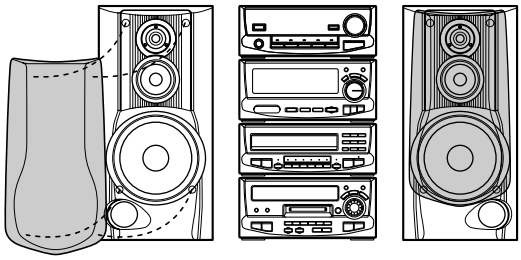
Speaker Section



Note on connection of optical-fiber cable

÷Insert the optical-fiber cable straight into the connector until it clicks.
÷Be sure to attach the protection cap when the connector is not used.
÷Never bend or bundle the optical-fiber cable.
÷All of the optical-fiber cables sold in audio stores cannot always be used.
÷If the cable you purchased cannot be connected to this unit, please consult your dealer or KENWOOD distributor.

Caution regarding placement (Front view)



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

Top panel : 50 cm, Rear panel : 10 cm, Left and right panel : 10 cm

Please install as shown, as otherwise fire may be caused by overheating.

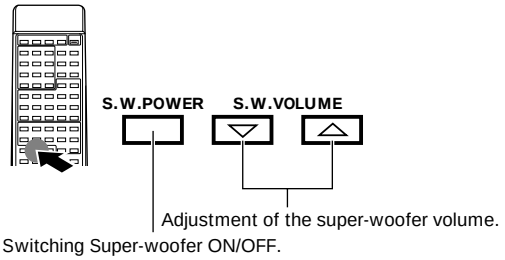
1. Be sure to insert all connection cords securely. If their connections are imperfect, the sound may not produced or noise may interfere.
2. Before plugging or unplugging a connection cord, be sure to unplug the power cord from the wall AC outlet, if connection cords are plugged or unplugged with the power cord left plugged in, malfunction or damage may result.

1. When arranging the system units in a vertical, stacked configuration, observe the stacking order indicated in the system connection diagram.
2. In case an associated system component is connected, also read the instruction manual of the component.
3. Align the front panels of the unit flush.
4. Never short-circuit the + and – speaker cords.
5. If the left and right speaker connections or the + and – polarity are inverted, the sound will be unnatural with unclear positioning of musical instruments, etc. Be sure to connect them without mistake.

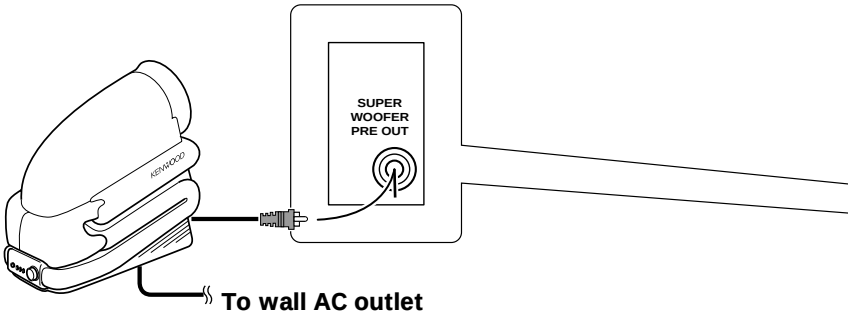
Connection of other components and accesories

Connect separately sold parts as shown in the figure.
Do not plug the power cord into the power outlet until all of the required connections have been made.

Super-Woofer Operation



÷Once the super-woofer volume has been decided, the **VOLUME CONTROL** can be used for volume adjustment with the same balance.
÷Point the remote control towards the super-woofer.



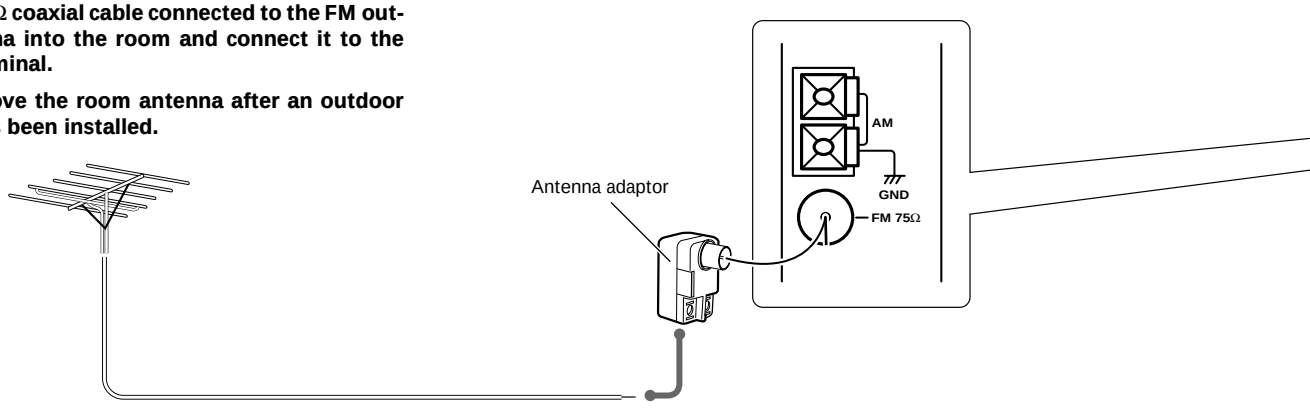
Super woofer (SW-500) (optional)

Extremely low sound is played back powerfully. This can be used with any type of playback.

FM outdoor antenna

Lead the 75Ω coaxial cable connected to the FM outdoor antenna into the room and connect it to the FM 75Ω terminal.

Please remove the room antenna after an outdoor antenna has been installed.



Caution

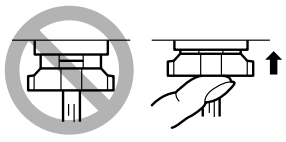
1. Be sure to insert all connection cords securely. If their connections are imperfect, the sound may not be produced or noise may interfere.
2. Before plugging or unplugging a connection cord, be sure to unplug the power cord from the wall AC outlet. If connection cords are plugged or unplugged with the power cord left plugged in, malfunction or damage may result.

Notes

1. In case an associated system component is connected, also read the instruction manual of the component.
2. To pull the cable, press both ends of the socket and pull the cable straight out.

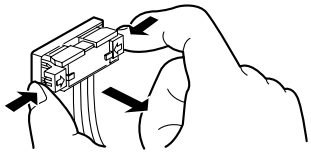
Connection of system control cord

Plugging the connector

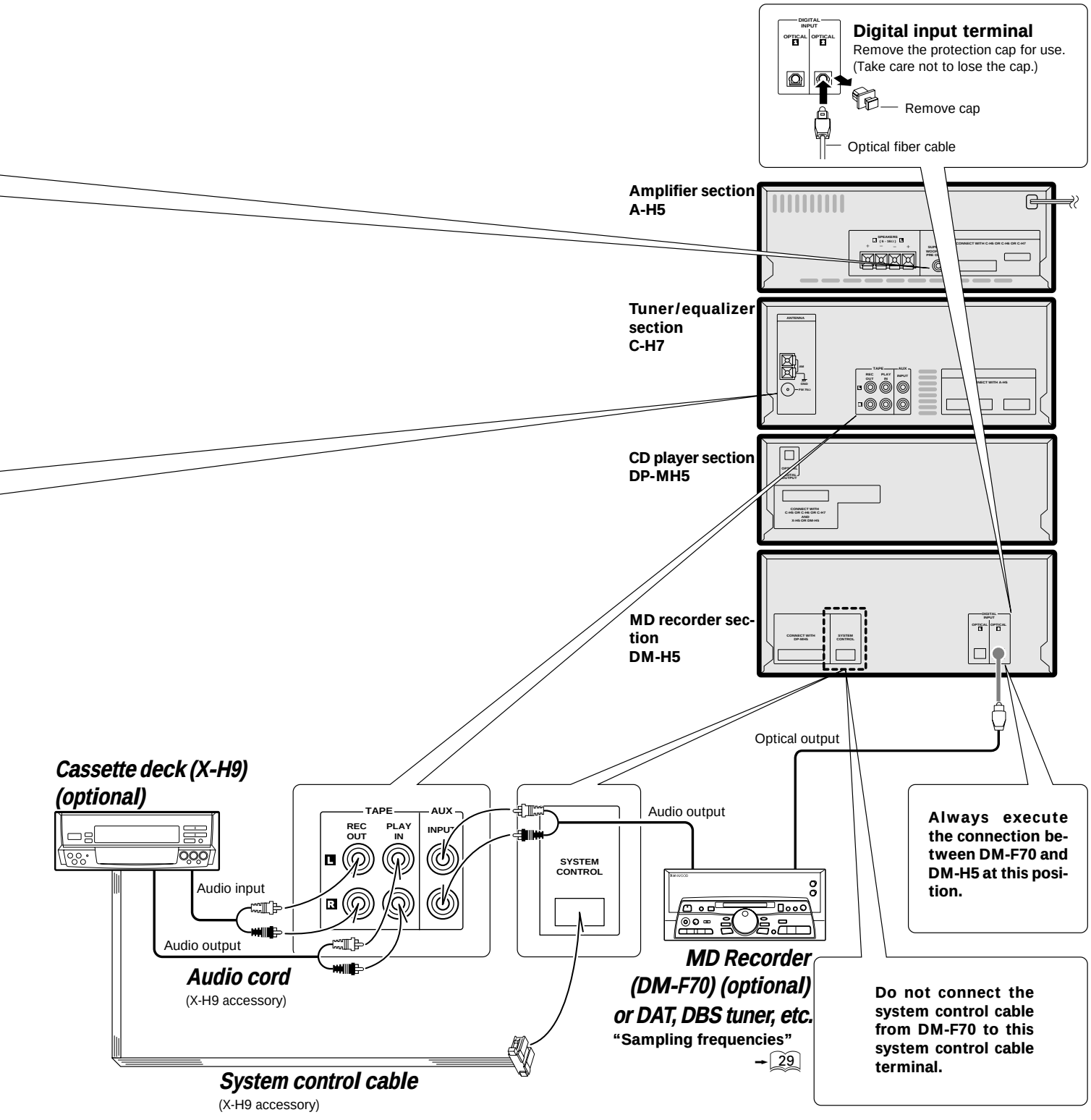


Insert the plug straight into the connector unit it locks

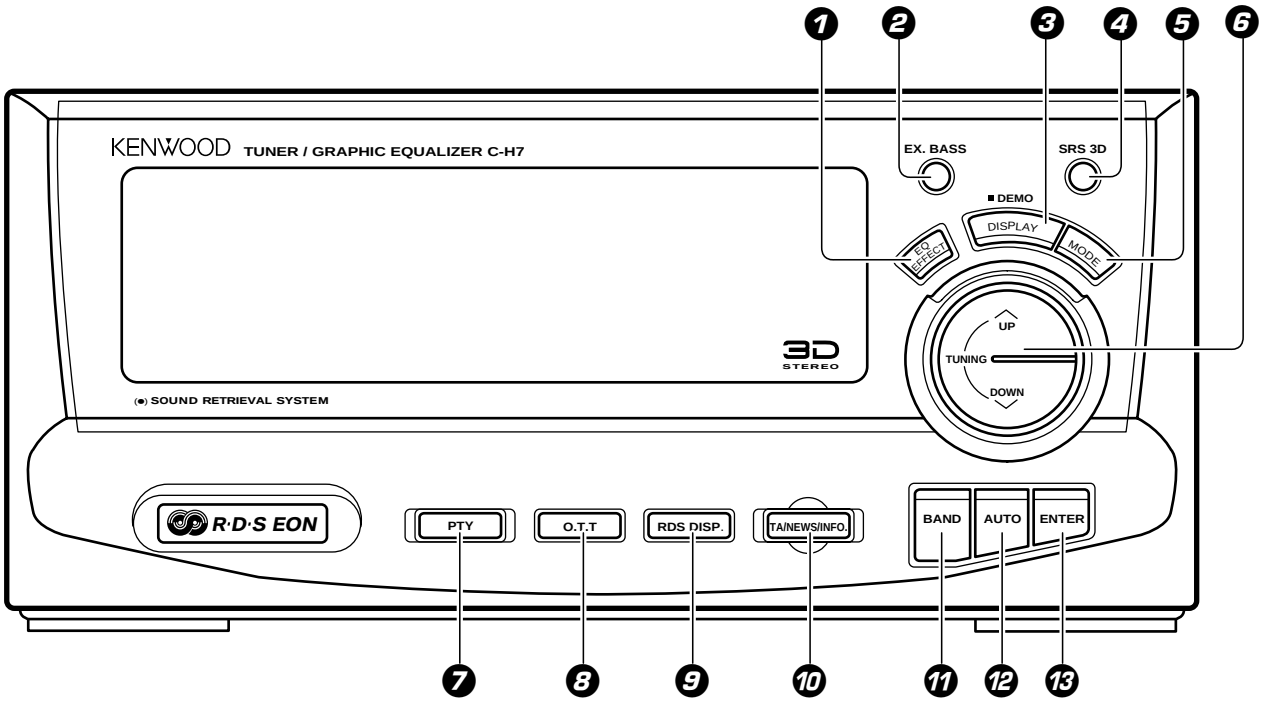
Unplugging the connector



While pushing the two sides of connector in, pull it straight out


Digital input terminal
Remove the protection cap for use.
(Take care not to lose the cap.)
Remove cap
Optical fiber cable
Amplifier section
A-H5
Tuner/equalizer section
C-H7
CD player section
DP-MH5
MD recorder section
DM-H5
Optical output
Cassette deck (X-H9) (optional)
TAPE
AUX
REC OUT
PLAY IN
INPUT
Audio input
Audio output
Audio cord
(X-H9 accessory)
SYSTEM CONTROL
Audio output
MD Recorder (DM-F70) (optional) or DAT, DBS tuner, etc.
"Sampling frequencies"
29
System control cable
(X-H9 accessory)
Always execute the connection between DM-F70 and DM-H5 at this position.
Do not connect the system control cable from DM-F70 to this system control cable terminal.

Tuner/equalizer section



❶ EQ.effect key → 67
The equalizer effect is switched ON and OFF. Also, the equalizer type can be selected.

❷ EX. BASS key/indicator → 19 → 72
At the time of unit ON : Used for EX. BASS playback ON/OFF.
At the time of unit OFF : Used for timer setting.

❸ DISPLAY/DEMO key → 69
The indications contents of the display are switched. Used for demonstration ON/OFF.

❹ SRS 3D key/indicator → 66 → 73
At the time of unit ON : This is used for SRS 3D ON/OFF switching.
At the time of unit OFF : Used for timer setting.

❺ MODE key → 66
This switches the function of the **TUNING UP/DOWN key**. The items which can be selected differ according to the status at that time.

❻ TUNING UP/DOWN key → 26
Normally used for station selection. Depending on the purpose, function switching is possible with the **MODE** key.

❼ PTY key → 40
Used at the time of program type detection.

❽ O.T.T.key → 71
Used for O.T.T. timer setting.

❾ RDS DISP. key → 39
Switches the contents of RDS-related display.

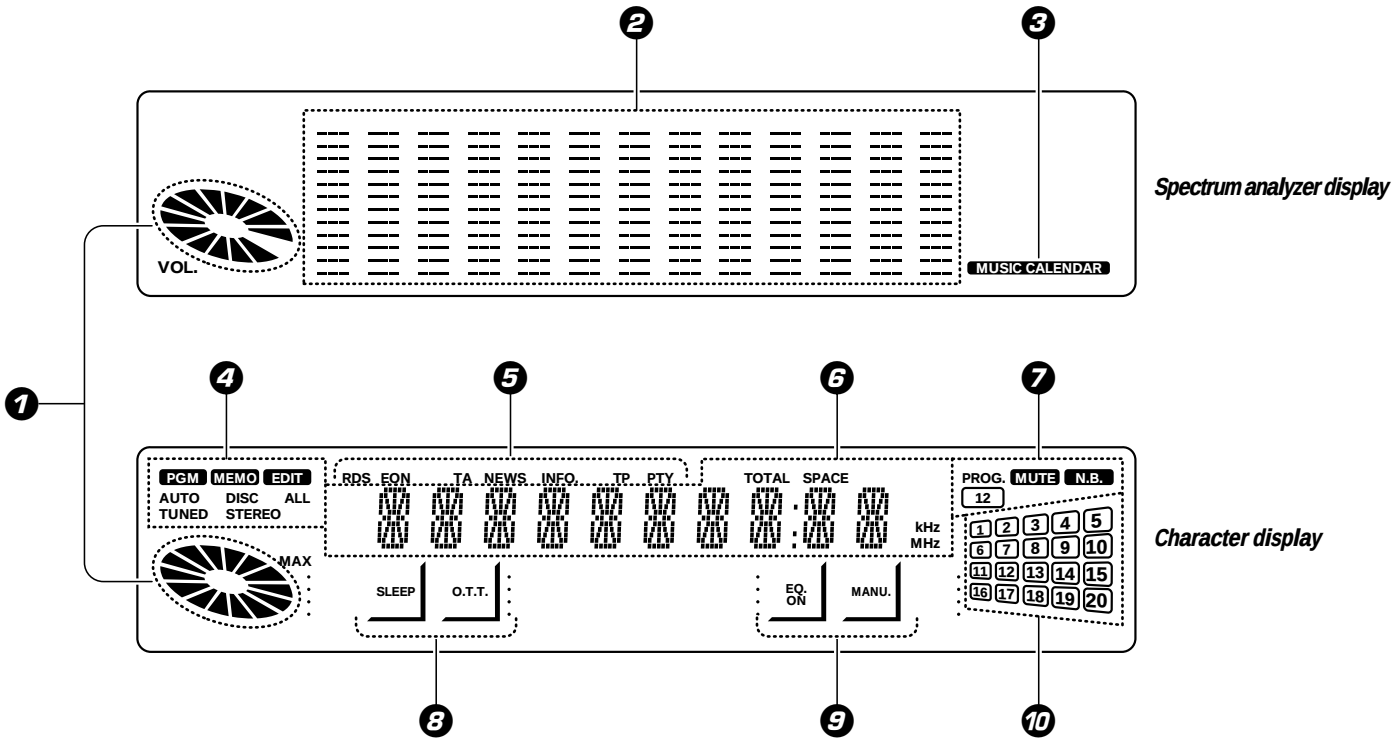
❿ TA/NEWS/INFO. key → 19 → 42
At the time of unit ON : Used at the time of EON reservation.
At the time of unit OFF : Used for AUTO POWER SAVE ON/OFF.

⓫ BAND key → 26
The received broadcasting band is switched.

⓬ AUTO key → 27 Π
At the time of unit ON : This is used for switching between automatic reception (stereo) and manual reception (monaural).
At the time of unit OFF : Used for time setting.

⓭ ENTER key → 27
This is used for clock setting, timer setting, etc.

Display (Tuner/equalizer section)



❶ Volume display section
Approximate indication of the presently set volume level.

❷ Spectrum analyzer/equalizer display
Display of the spectrum analyzer pattern changing with the music being played or display of the presently applied equalizer pattern.

❸ Music calendar display

❹ Display section for tuner, application operation, etc
In addition to tuner indication, CD and MD application operation etc. also is indicated.

❺ Display for RDS-related information

❻ Character information display section
Input switching, frequency indication, volume level, CD disc No., time indication, etc. are indicated.

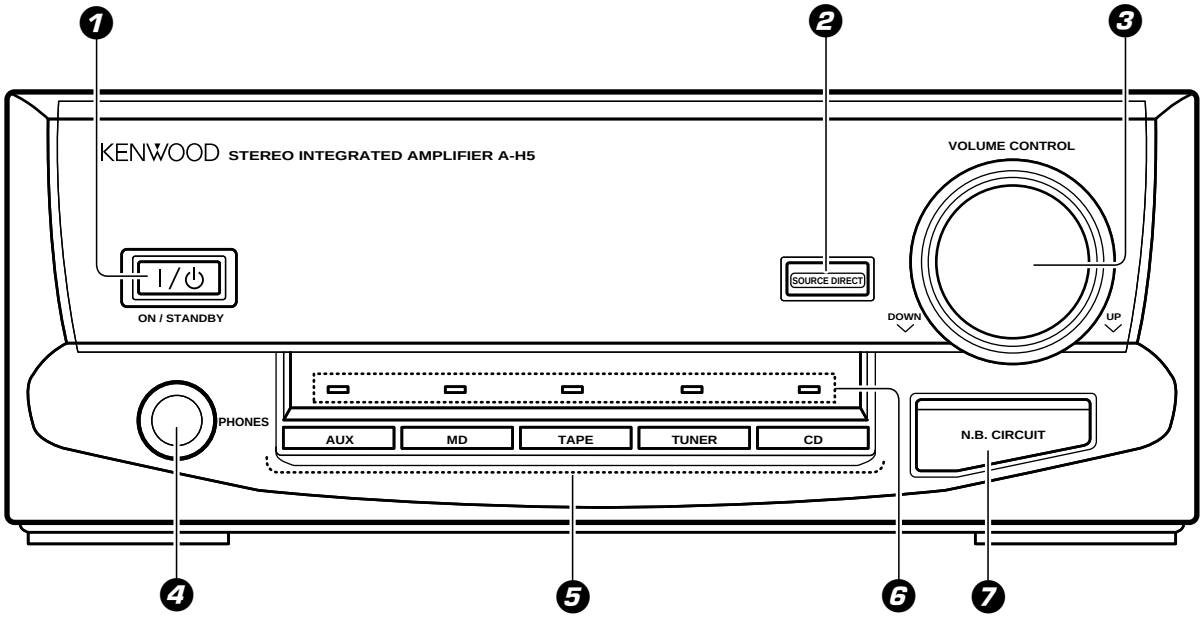
❼ Timer reservation No., mute, N.B. indication

❽ Timer-related indication (SLEEP, O.T.T. indication)

❾ Equalizer-related indication (EQ. ON, MANU. indication)

❿ Music calendar display
Indication of the titles on the presently selected CD (one of tray 1 to 6). The track numbers of the tracks already played go out.

Amplifier section



❶ ON/STANDBY (I / ⏻) key → 18

The system is switched ON and STANDBY.

STANDBY	: The key is lit in red.
ON	: The key is lit in green.

❷ SOURCE DIRECT key → 19

Used to enjoy even purer sound.

❸ VOLUME CONTROL knob → 18 → 68

Normally this is used for volume adjustment. This also can be used for adjustment of the input level.

❹ PHONES jack → 19

Headphones (sold separately) can be connected.

❺ Input selection keys → 18

The input source is selected. When CD, or MD is selected and a disc has already been set, playback will start automatically.

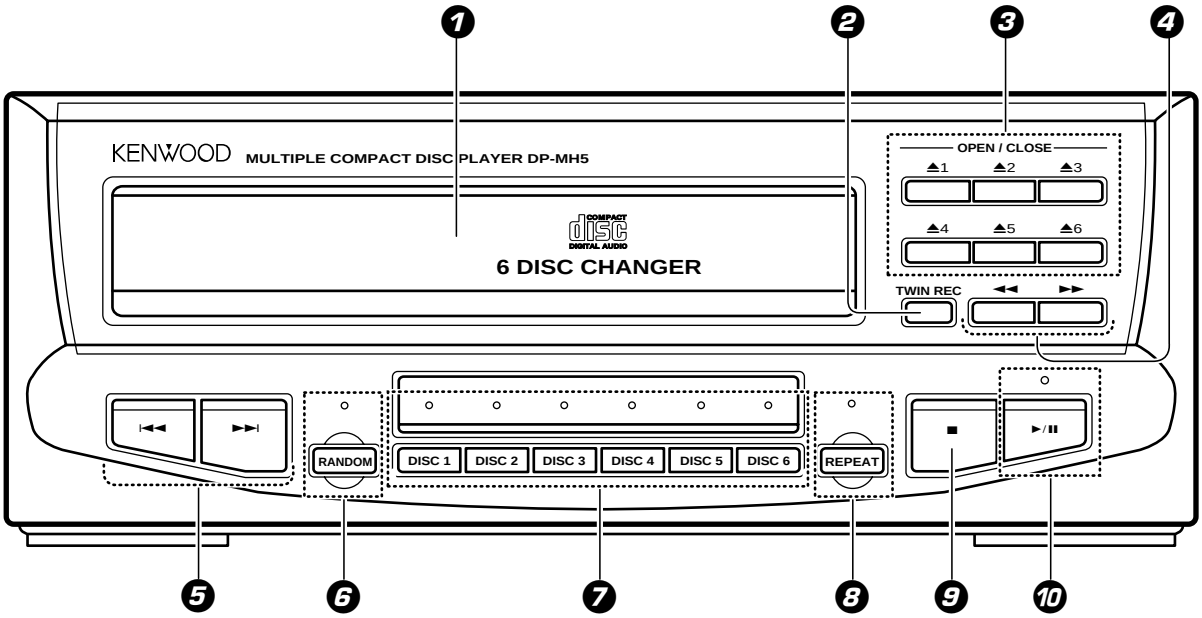
❻ Input selection indicators → 18

The presently selected input source is shown.

❼ N.B.CIRCUIT key → 19

When listening at low volume, the deficiency in the extra low bass range is compensated.

CD player section



❶ Disc tray → 20
Up to 6 CDs can be held.

❷ TWIN REC key → 48
Simultaneous recording of a CD to MD and tape.

❸ OPEN/CLOSE (⏏1~⏏6) keys → 20
Used to insert and remove CDs.

❹ SEARCH (◄◄, ►►) key → 21
Used for quick title search forward and reverse.

❺ SKIP (I◄◄, ►►I) keys → 21
Used to skip titles or to jump back to the start of a title.

❻ RAMDOM key/indicator → 34
Used for random playback.

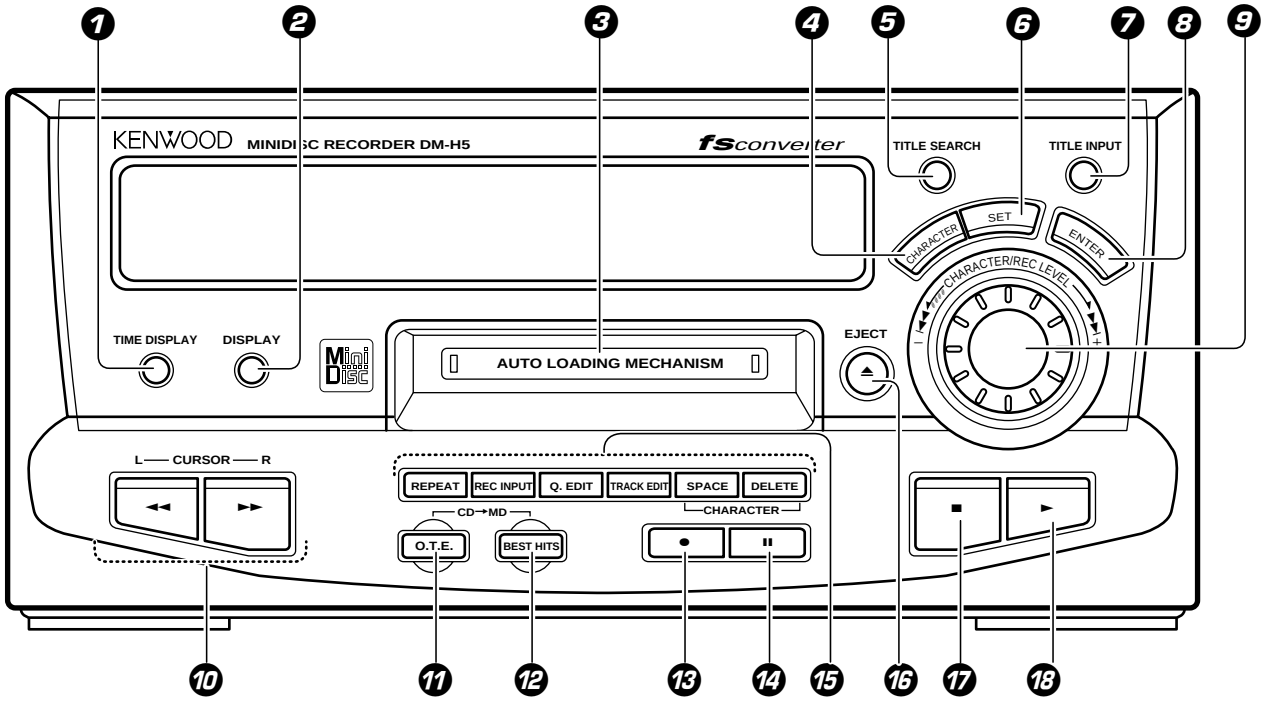
❼ DISC SELECTOR (DISC 1 ~DISC 6) keys/indicators → 21
Selects the disc to be played (or recorded). The indicator lights when there is a disc in the tray, and it flashes during playback.

❽ REPEAT key/indicator → 33
Used for repeated playback.

❾ Stop (■) key → 21

❿ Play/pause (►/II) key/indicator → 20

MD recorder section



Preparation section

❶ TIME DISPLAY key ∞
The time display type is switched.

❷ DISPLAY key ∞
This is used to switch the title display mode etc.

❸ Minidisc insertion slot → 22

❹ CHARACTER key → 56
This selects the character group at the time of title input.

❺ TITLE SEARCH key → 24
This is used for title search.

❻ SET key → 56
This is used for title input and editing.

❼ TITLE INPUT key → 56
This is used for title input.

❽ ENTER key → 56
This is used for execution of edit processing, confirmation of entered titles, etc.

❾ Jog dial (⏮, ⏭) → 23
This is used as the skip key at the time of playback.
It is also used for track search and editing.

❿ Fast forward, fast reverse (◄◄, ►►) keys → 23 → 56
At the time of playback, this is used for fast forward and fast backward.
At the time of title input, this is used for cursor movement.

⓫ O.T.E. key → 46
When this key is pressed during CD playback, only the track being played at that time will be recorded to MD. When this key is pressed in stopped condition, the CD selected at that time will be recorded to MD from the first track on.

⓬ BEST HITS key → 49
The first tracks of all CDs in the unit are recorded sequentially on MD.

⓭ REC (●) key → 29
This is used at the time of recording.

⓮ Pause (II) key → 23

⓯ Keys related to title input, editing, edit recording, and playback

REPEAT key → 37
This is used for repeated playback.

REC INPUT key → 30
This is used to select digital or analog input.

Q.EDIT key → 58 → 63
Used to change the title sequence and for deletion.

TRACK EDIT key → 59
Used for track editing and for erasing of tracks or the entire disc.

CHARACTER SPACE key → 57
This is used at the time of title input to enter a blank space.

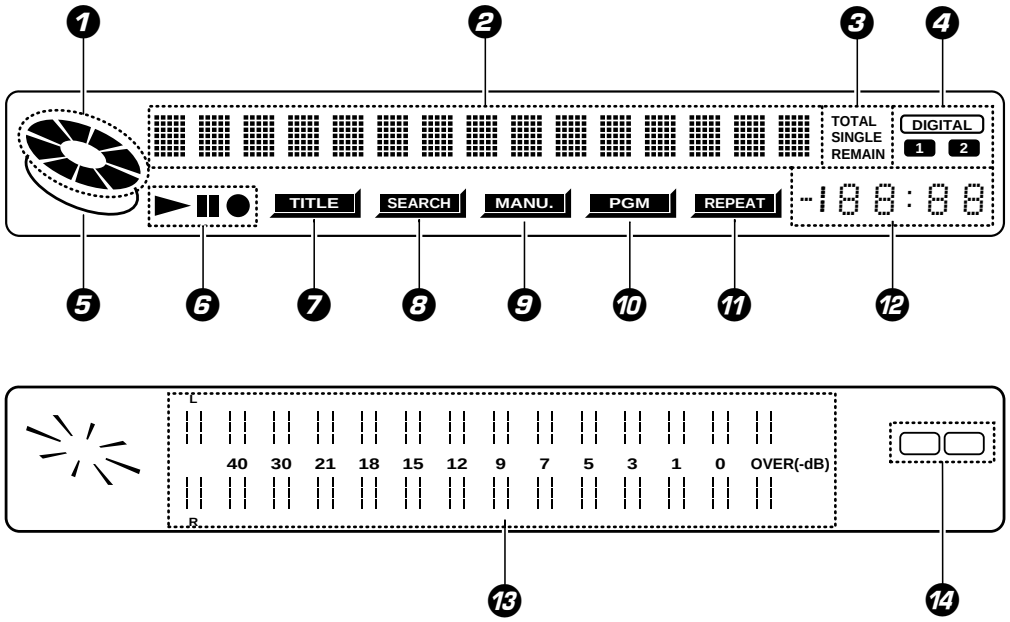
CHARACTER DELETE key → 57
This is used at the time of title input to delete one character.

⓰ EJECT (⏏) key → 23
This key is pressed to remove discs.

⓱ STOP (■) key → 23

⓲ PLAY (►) key → 22

Display (MD recorder section)



Character information, recording and playback information display

Peak level meter display

❶ Running indication

❷ Character information display
Indication of track and disc titles, title numbers, editing information, etc.

❸ TOTAL, SINGLE, REMAIN indication ∞
Indication of the time indication mode.

❹ DIGITAL 1, 2 indication → 30
This lights when digital input is selected.

❺ Recording prohibition indication → 5
This lights when recording is prohibited for an MD recording.

❻ Playback, pause, recording indication
This indicates the running status of the MD.

❼ TITLE indication → 24 → 56
This flashes during title input, title search, and title editing.

❽ SEARCH indication → 24
This flashes during title search.

❾ MANU. indication → 30
This lights when MANU. is selected with the **AUTO/MANU.** key.

❿ PGM indication → 35
This lights at the time of program playback.

⓫ REPEAT indication → 37
This lights at the time of repeat playback.

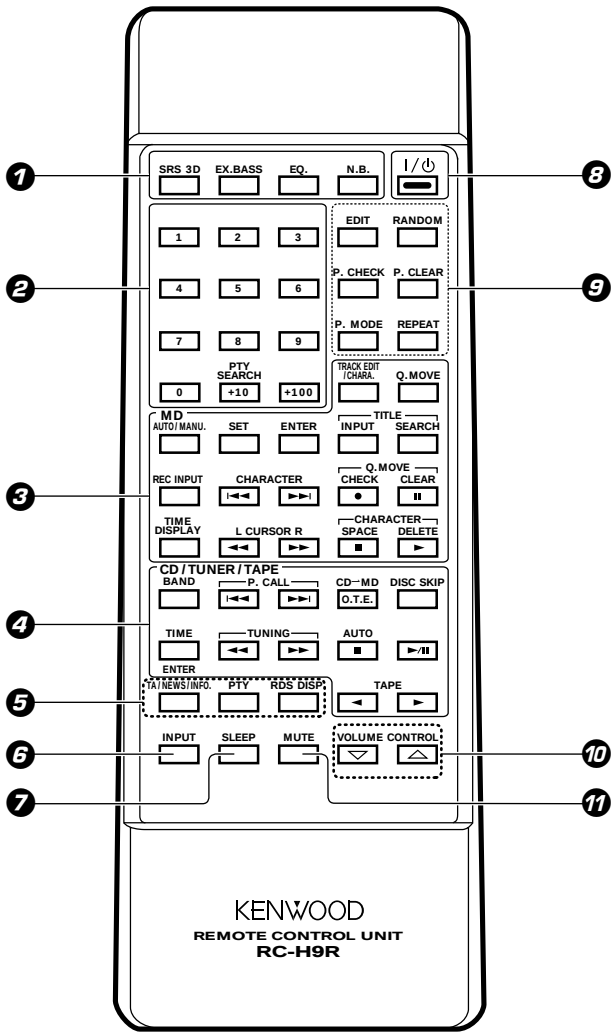
⓬ Time display section ∞

⓭ Peak level indicator → 29
This is used mainly as an indication of the recording level at the time of analog recording.

⓮ Digital input indication → 30
At the time of digital recording, the frame on the selected side lights. (1 or 2)

Remote control unit

Model : RC-H9R
Infrared ray system



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.

❶ Keys related to sound quality and sound field

SRS 3D key
EX.BASS key
EQ. key : The equalizer effect is switched ON/OFF and the type of equalizer effect is selected. → 67

N.B. key → 19

❷ Numeric keys

These are used to select CD or MD tracks and as number keys for the tuner. (The **+100** key is used only for the MD recorder.)
The **PTY SEARCH (+10)** key is used to search for the program type with RDS broadcasts.

❸ Keys related to the MD recorder

TRACK EDIT/CHARA. key
Used for track editing and for erasing of tracks or the entire disc.
This selects the character group at the time of title input.

Q.MOVE key
AUTO/MANU. key
This is used for selection of automatic (AUTO) or manual (MANU.) track number assignment at the time of recording.

SET key
ENTER key
TITLE INPUT key
TITLE SEARCH key → 24
: This is used at the time of title search.

REC INPUT key
CHARACTER/Skip (I◄◄, ►►I) keys
Q.MOVE CHECK/Record (●) key
Q.MOVE CLEAR/Pause (II) key
TIME DISPLAY key ∞
: The time display type is switched.

L CURSOR R/Fast forward, fast reverse (◄◄, ►►) keys
CHARACTER SPACE/Stop (■) key
CHARACTER DELETE/Playback (►) key

❹ Keys related to CD/tuner/tape deck (option)

BAND key (tuner) key
P.CALL/skip (I◄◄, ►►I) keys (tuner/CD)
: These are used to receive memorized radio stations. → 21 → 26

CD→MD O.T.E. key (CD) : Same operation as the O.T.E. key on the unit.

DISC SKIP key (CD) : This selects the disc to be played. → 21
TIME/ENTER key (CD) : This switches the CD time display mode. This is used to memorize stations. → 21 → 27

TUNING/Fast forward, fast reverse (◄◄, ►►) keys (tuner/CD, tape deck (option))
AUTO/Stop (■) key (tuner/CD, tape deck (option))
Playback/pause (►/II) key (CD)
Playback (◄, ►) keys (tape deck (option))

❺ RDS-related keys

TA/NEWS/INFO. key : Used at the time of EON reservation. → 42

PTY key : Used at the time of program type detection. → 40

RDS DISP. key : Switches the contents of RDS-related display. → 39

❻ INPUT key → 18

: This selects the input source for listening or recording.

❼ SLEEP key → 71

: This is used to set the sleep timer.

❽ ON/STANDBY key → 18

❾ Keys related to special playback with CD and MD

EDIT key (CD) : This is used for edit recording of a CD onto tape. → 52

RANDOM key (CD) : Playback of the CD tracks in random order. → 34

P.CHECK key (CD, MD) : The programmed track sequence is displayed for confirmation. → 32 → 36

P.CLEAR key (CD, MD) : The programmed track sequence is cleared. → 32 → 36

P.MODE key (CD, MD) : This is used to program the track sequence. → 31 → 35

REPEAT key (CD, MD) : This is used for repeated playback. → 33 → 37

(Common keys for CD and MD function for CD or MD according to the input selection.)

❿ VOLUME CONTROL (▽, △) keys

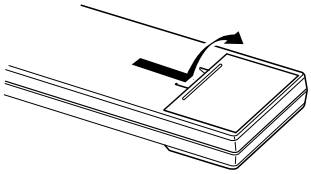
⓫ MUTE key → 19

This is used to suppress the sound temporarily.

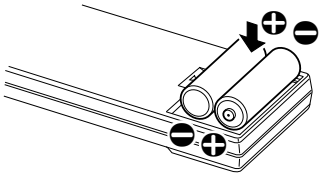
Operation of remote control unit

Loading batteries

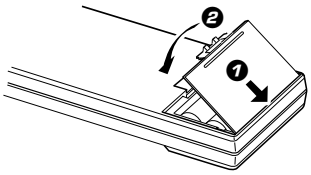
❶ Remove the cover.



❷ Insert batteries.



❸ Close the cover.



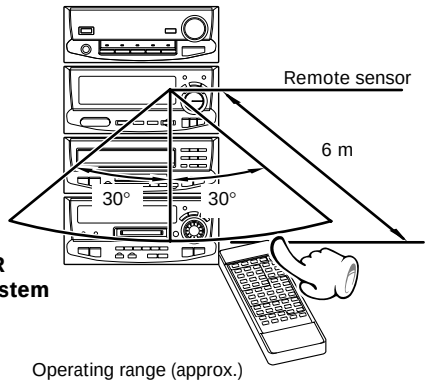
÷Insert two R6 (“AA”-size) batteries following the polarity indications.

Operation

After plugging the power cord of this unit, press the ON/STANDBY (I/⏻) 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.

Press the ON/STANDBY (I/⏻) key again for OFF (STANDBY). Only the time display will remain lit and standby status will be reached.

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



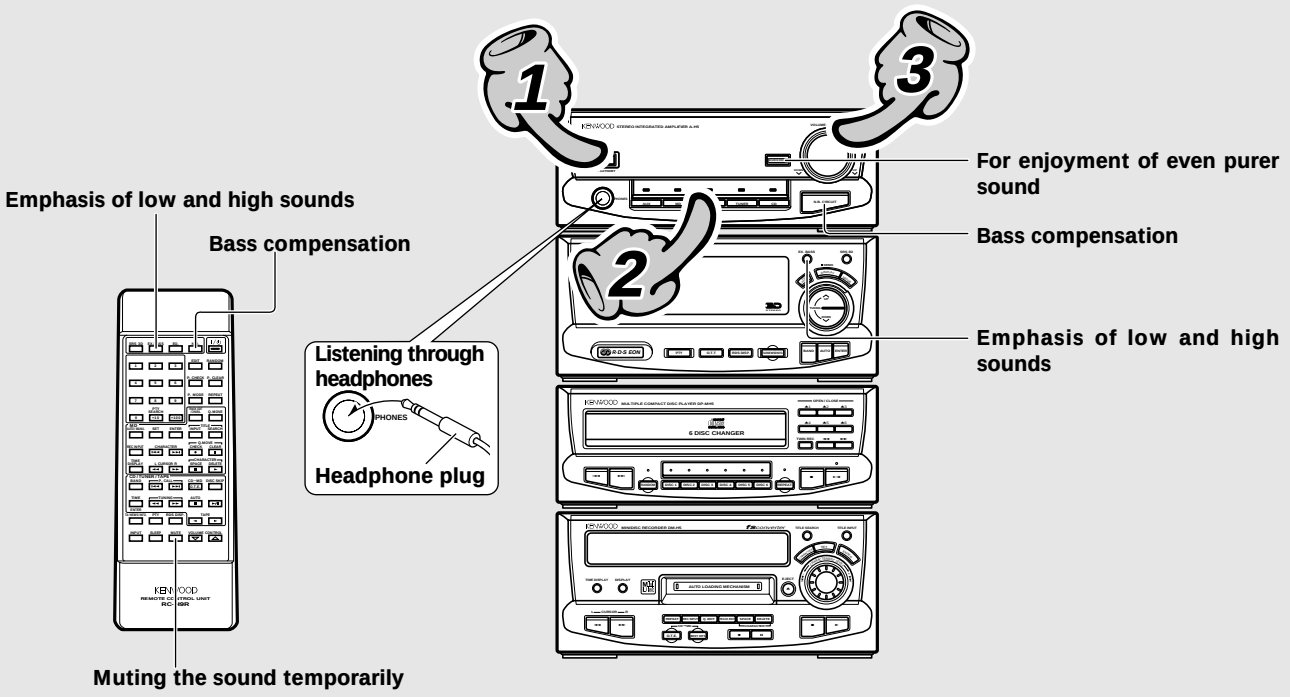
Model: RC-H9R
Infrared ray system

Operating range (approx.)

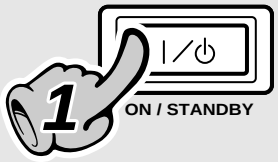
Notes

1. The provided batteries are intended for use in operation checking, and their service life may be short.
2. When the remote controllable distance becomes short, replace both of the batteries with new ones.
3. 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.

Basic use method



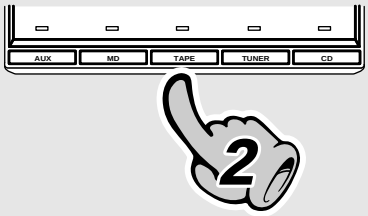
Press the ON/STANDBY key of the unit.



1. Set the ON/STANDBY key to ON (STANDBY).

When the ON/STANDBY (I/⏻) key is pressed while the unit is ON, the unit will be switched OFF (STANDBY).

÷This system can be switched on and off (STANDBY) simply with the **ON/STANDBY (I/⏻)** key of the amplifier section (A-H5).
÷The display part becomes dark when the unit is switched OFF (STANDBY). (DIMMER function)



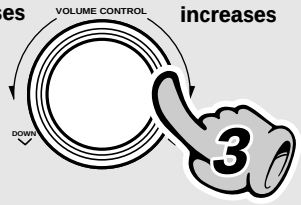
2. Selecting the desired output.

① **CD** → 20
② **MD** → 22
③ **Broadcasts** → 26

÷When using the remote control, press the **INPUT** key repeatedly to select.
÷When CD or MD is selected, playback will start when a disc has already been inserted.
÷For listening to tapes, read the section "Tape playback" in the operation manual of the cassette deck X-H9 (option).

The volume decreases

The volume increases



3. Volume adjustment.

÷Quick turning produces a larger change amount. (Dynamic rotary volume control function)
÷The display shows a reference value.

For enjoyment of even purer sound (SOURCE DIRECT)

(only on the main unit)

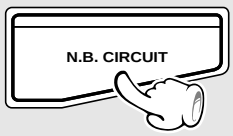
When SOURCE DIRECT is switched on, the signal path becomes simple and the sound purity is improved.

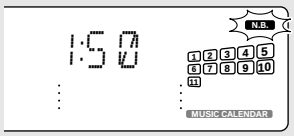
Lights

÷Other functions than the balance control cannot be used because the audio signals bypass the circuits.
÷Press the key again to cancel this function.

Bass compensation (N.B.CIRCUIT : Natural Bass circuit)

Lights





Each press switches the modes as follows.

① NB1 ..... The bass range is compensated according to the volume (effective at low volume).
② NB2 ..... Bass range compensation independent of the volume.
③ NBOFF ..... N.B. cancellation.

Emphasis of low and high sounds (EX. BASS)

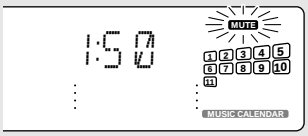
The factory default is ON.

Lights

÷Switching between ON and OFF each time the key is pressed.

Muting the sound temporarily (only on the remote control)

Blinks



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

Listening through headphones

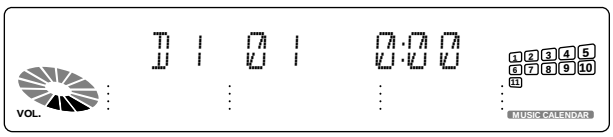
❶ Insert the headphone plug into the PHONES jack.

÷The sounds from all speakers are cut off.

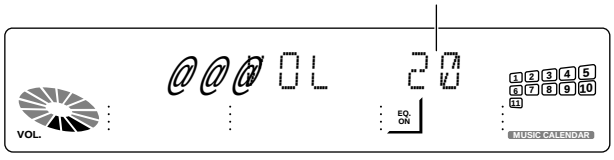
❷ Adjust the volume.

÷Always turn down the volume before inserting or pulling the plug.

When CD has been selected.



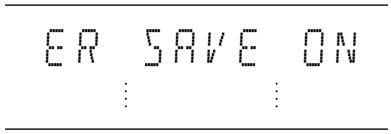
Volume display



AUTO POWER SAVE function

When the unit is ON and neither recording nor playback is executed for 30 minutes or more, the unit is switched off automatically by this function. This function can be made active or not active by the following operation.

Press at the time of power off.



Each press switches the modes as follows.

① "ON" .... Auto power save is used.
② "OFF" ... Auto power save is not used.

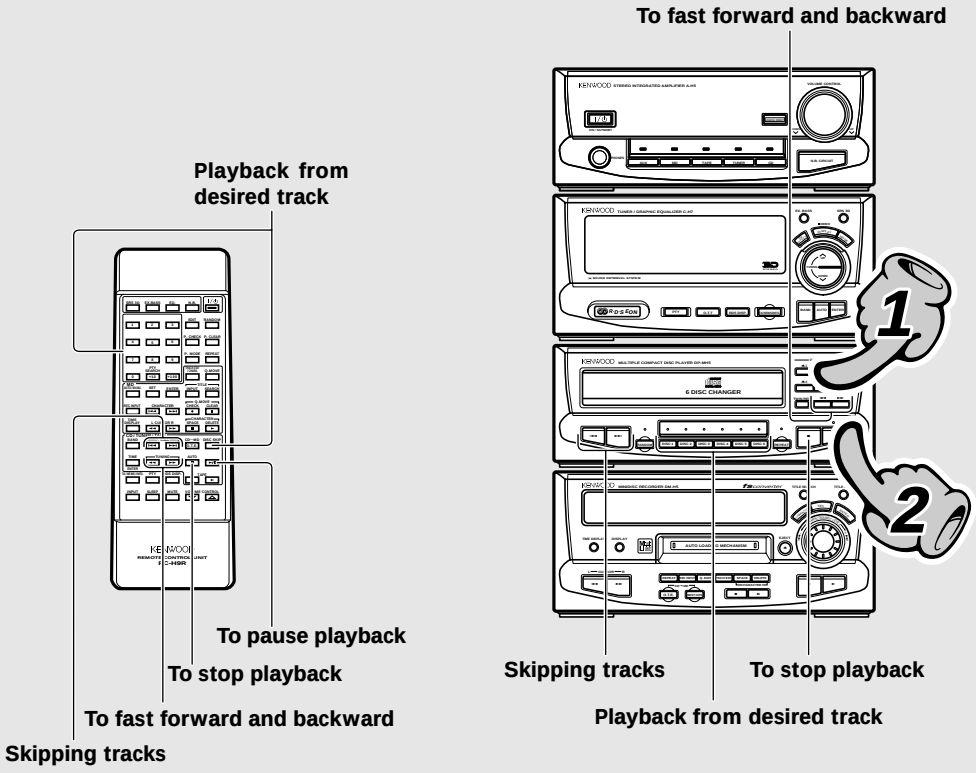
÷This is not effective when the input selection is set to AUX. When TUNER is selected, this works only when the volume indication is zero.

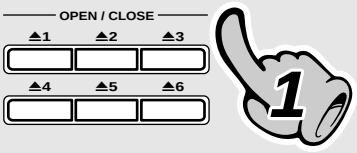
Standby mode

When the plug of the power cord of this unit is plugged into an outlet, the time indication lights in OFF (STANDBY) condition. This indicates that a small amount of current is being supplied to the unit to back up the memory contents. This mode is referred to as the standby mode. While the time indication is lit, the system can be switched ON from the remote control unit.

Playback of CD

Six discs can be stored. During playback of one disc, the other five can be exchanged.

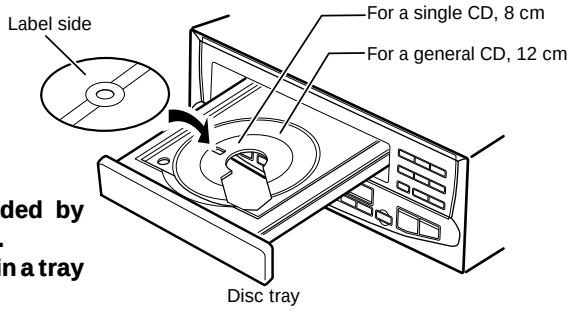




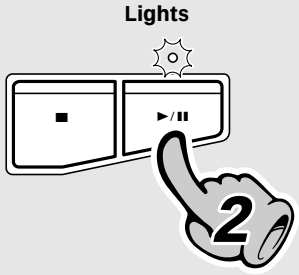
When a key is pressed, the tray opens. When the key is pressed again, the tray closes. When a different number key is pressed while a tray is open, the tray closes automatically, and then the tray with the pressed number opens.

1. Load a disc.

❶ Open the tray.
❷ Place a disc.
❸ Close the tray.

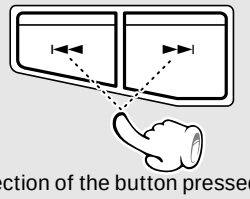


Up to six discs can be loaded by repeating the above ❶ to ❸.
Stacking more than one disc in a tray will cause trouble.



2. Start playback.

Skipping tracks



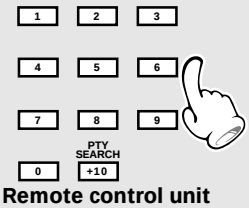
÷The track in the direction of the button pressed is skipped, and the selected track will be played from the beginning.
÷When the ⏮ key is pressed once during playback, the track being played will be played from the beginning.

Playback from desired track

❶ **Select the disc.**

Main unit

Remote control unit



❷ **Select the desired track No.**

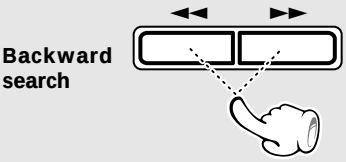
Remote control unit

Press the numeric keys as shown below....

To enter track No. 23 : [+10] [+10] [3]

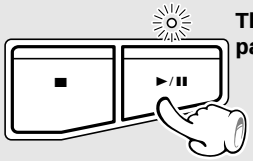
To select track No. 40 : [+10] [+10] [+10] [+10] [0]

To fast forward and backward



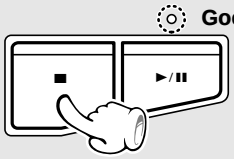
÷Playback starts from the position where the key is released.

To pause playback



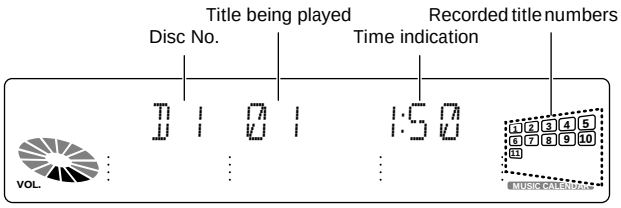
÷Each press pauses and plays the CD alternately.

To stop playback



The indicator for the number of the open tray flashes.

÷Do not touch the played side of disc.
÷Place the disc properly along the groove on the tray. (If the disc is not placed horizontally, malfunction will result.)
÷Commercial CD single disc (8 cm) disc adapters can not be used.



÷After a few seconds, playback of the first title of tray No. 1 starts.
÷For start from a desired disc, select with the **DISC 1 ~ DISC 6** (disc selector) key.

When the unit is switched off (STANDBY) and then on again, all disc indicators will light, independent of the presence or absence of discs.

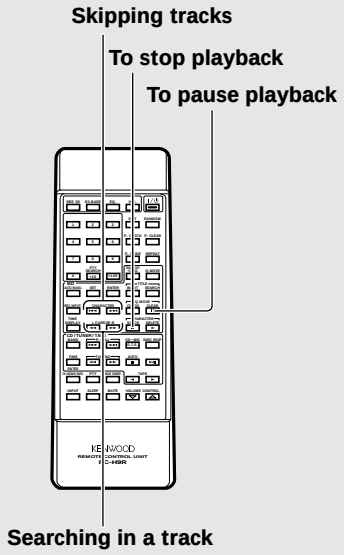
Time display for CD player (only during playback)

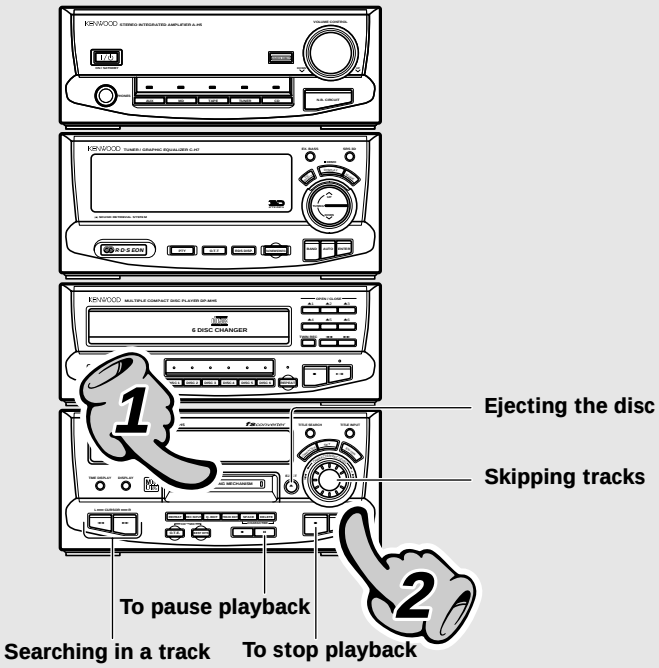
The display indication is switched each time the TIME/ENTER key of the remote control is pressed.

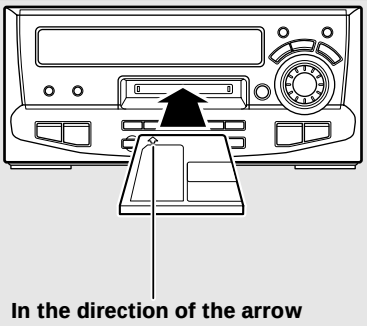
① 1:23 : Elapsed time of track being played
② - 2:37 : Remaining time of track being played
③ TOTAL 23:45 : Elapsed time of entire disc
④ - TOTAL 36:15 : Remaining time on entire disc

÷There is no **TOTAL** indication in PROGRAM mode, in EDIT mode, and in RANDOM mode.

Playback of Mini Disc





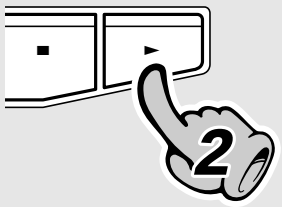


1. Load a Mini Disc.

Insert the disc a little, and it will be pulled in automatically.

÷When a title has been recorded for the disc or the track, the title is displayed.
÷When commercial MD music software or recorded MD with recording prohibited is inserted, playback starts automatically.

→ 5 → 77



2. Start playback.

To listen from the track No. 1

÷In a few seconds, playback starts from track No. 1.
÷During playback, the track title is displayed at the beginning of each track.

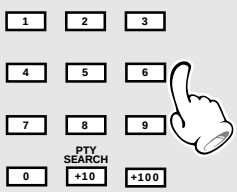
To select a track

Press the numeric keys as shown below....

To enter track No. 23:
..... [+10] [+10] [3]

To enter track No. 40:
..... [+10] [+10] [+10] [+10] [0]

÷If the **"PGM"** indicator is lit, press the **P.MODE** key of the remote control unit to not lit.
÷If a track NO. which does not exist on the disc is selected while **"DISC READING"** is blinking, the last track on the disc will be played.

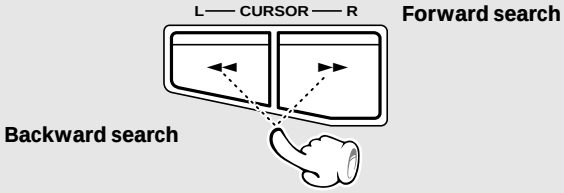


Remote control unit

When the playback (►) key is pressed again during playback of a track, the title of that track will scroll.

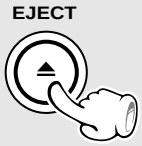
"In regard to display scrolling" → 23
"Assigning a title to a disc or track" → 56

Searching in a track



÷Playback restarts when the key is released. (When the key is pressed in pause mode, unit returns to the pause mode at the reached position.)
÷Sound is output when using forward or reverse search during playback.
÷If forward or reverse search is started during play-pause, the disc can be searched at a high speed but sound is not output.

Ejecting the disc *(only on the main unit)*



÷The minidisc comes out from the minidisc insertion slot.

Skipping tracks

To skip backward

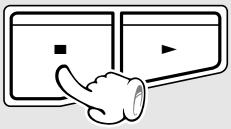
To skip forward

÷The track in the direction of rotating the jog dial is skipped, and the selected track will be played from the beginning.
÷When the jog dial is rotated a little in the direction of counter-clockwise once during playback, the track being played will be played from the beginning. (If it is rotated within 1 second from the start of a track, the previous track to the current track will be played from the beginning.)

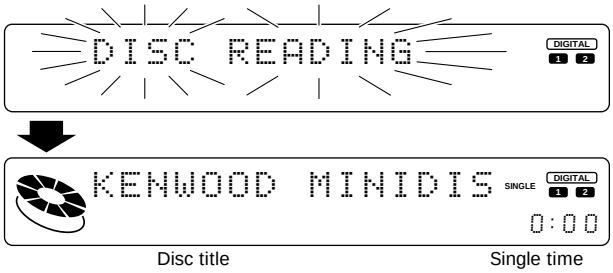
To pause playback

÷Each press pauses and plays the MD alternately.

To stop playback

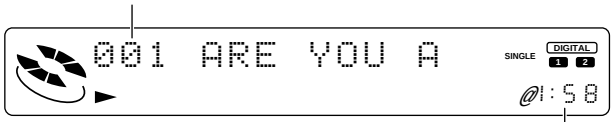


The display changes.



Disc title Single time

Track No. being played



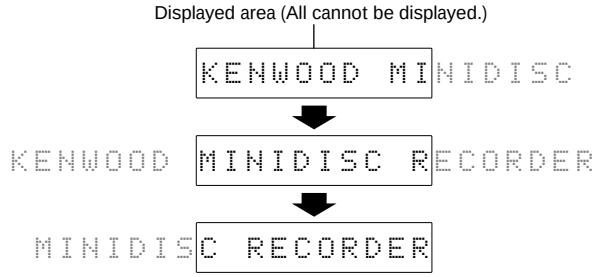
Elapsed time of track being played

Discs with application of equalizer or SRS 3D effect to the recorded sound (analog input) should be played without sound effect application.
→66 →67

In regard to display scrolling

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

Scrolling image

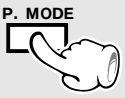


Disc recorded in monaural mode

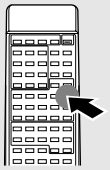
This unit is capable of playing a disc recorded in the monaural mode.
As the amount of data required to record information in the monaural mode is half the amount required in the stereo mode, the play (record) time of a disc recorded in the monaural mode is twice (max. 148 minutes) that of a disc recorded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

Searching a desired track by its title *(TITLE SEARCH)*

❶Confirm that the "PGM" indicator is not lit.



Press during stop.

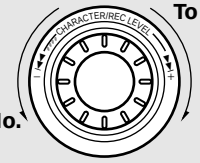


❷Press the TITLE SEARCH key.

To abort operation, press the TITLE SEARCH key again.

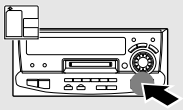
❸Select the desired title.

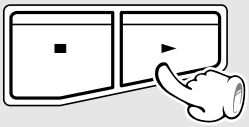
To larger track No.



To smaller track No.

❹Start playback.





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

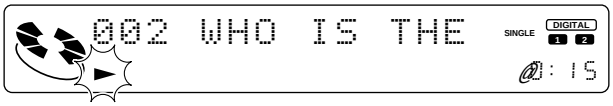
÷When the **"PGM"** display is lit, press the **P.MODE** key on the remote control unit to switch it off.

Goes off

The characters will scroll to the left.

Track title indication

÷Titles can also be selected with the keys I◄◄ and ►►I.

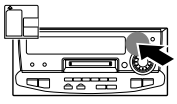


In regard to automatic title search

It is possible to play a track by displaying the track titles automatically and pressing the playback key while the desired title is being displayed.

❶Execute step ❶ of "Searching a desired track by its title".

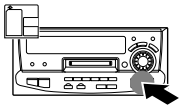
❷Press the TITLE SEARCH key for at least 2 seconds.

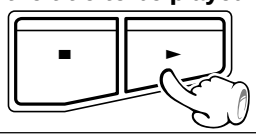


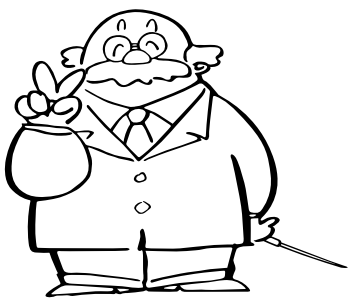
TITLE SEARCH

All titles of the minidisc will be displayed sequentially.
To cancel, press the TITLE SEARCH key again.

❸Press the playback key during display of the title to be played.

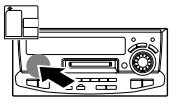






In regard to the TIME DISPLAY key

This can be used to change the time display type at the MD recorder section.



Main unit

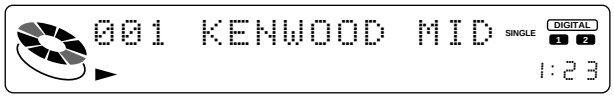
Each press switches the modes as follows.

During playback
- ► **① Elapsed time of track being played**
- **② Remaining time of track being played**
- **③ Recordable time for the entire minidisc**

In stopped condition
- ► **① Elapsed time of track (0:00 indication)**
- **② Remaining time of track (-0:00 indication)**
- **③ Total recorded time for the entire minidisc**
- **④ Recordable time for the entire minidisc**

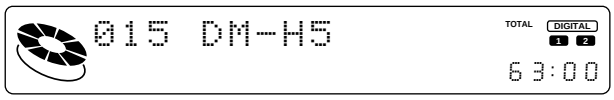
During recording
- ► **① Elapsed time of the track being recorded**
- **② Recordable time for the entire minidisc**

Elapsed time of track being played



Remaining time of track being played

Total recorded time for the entire minidisc

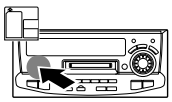


Recordable time for the entire minidisc **"REMAIN"** lights

÷ **"BLANK DISC"** is displayed when not even one track has been recorded. (When there is a disc title, the disc title will be displayed.)

In regard to DISPLAY key

The MD title display type (minidisc name, track name) can be switched.



Main unit

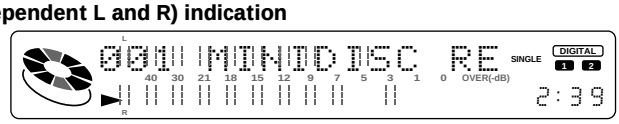
Each press switches the modes as follows.

During playback
- ► **① Track title indication and peak level meter (independent L and R) indication**
- **② Track title indication and peak level meter (L + R) indication**
- **③ Peak level meter (independent L and R) indication**
- **④ Track title indication**

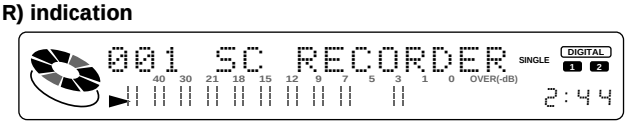
During stop
- ► **① Disc title indication and peak level meter (independent L and R) indication**
- **② Disc title indication and peak level meter (L + R) indication**
- **③ Peak level meter (independent L and R) indication**
- **④ Disc title indication**

÷ When the key is pressed while only the peak level meter of item ③ is being indicated, the indication will switch to ② Character indication and peak level meter indication only when required, and it will return to the original indication after a few seconds.

Track title indication (during playback) and peak level meter (independent L and R) indication

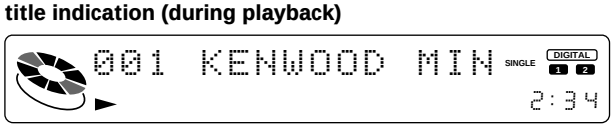


Track title indication (during playback) and peak level meter (L + R) indication



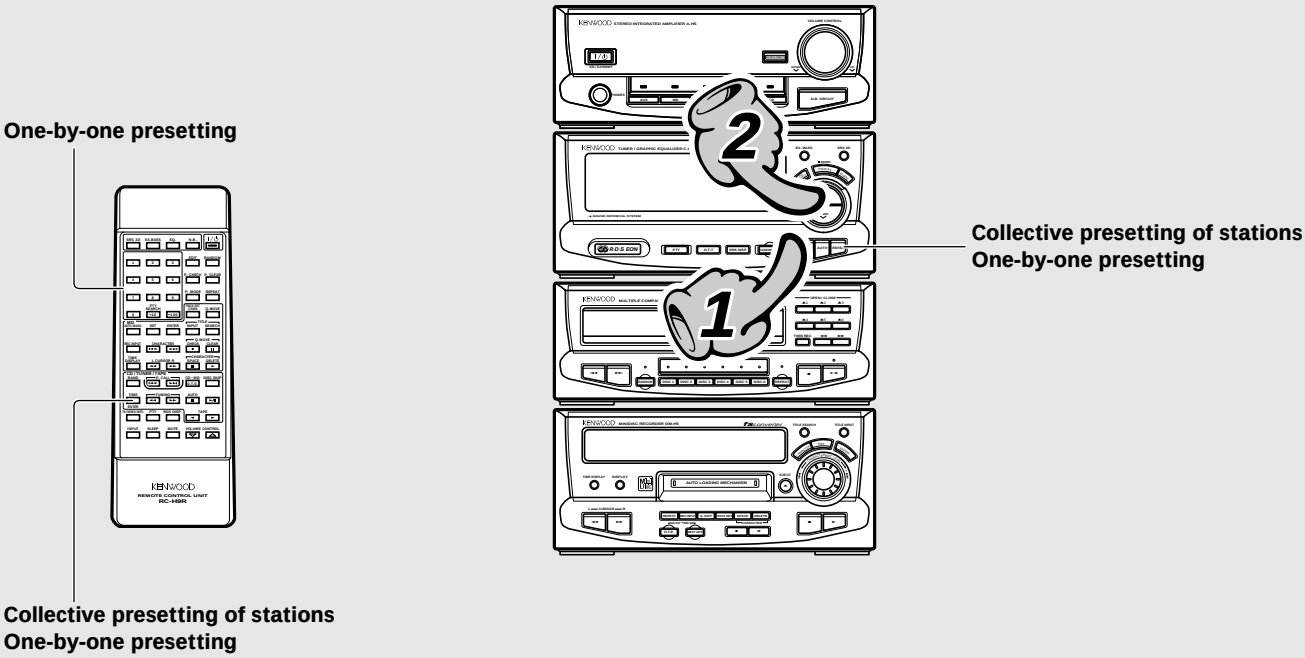
Peak level meter (independent L and R) indication

Track title indication (during playback)



Receiving broadcast station

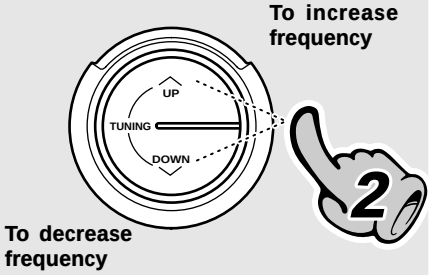
It is also possible to receive them by one-touch operations by storing up to 40 stations in the preset memory.



1. Select the broadcast band.

Each press changes the band.

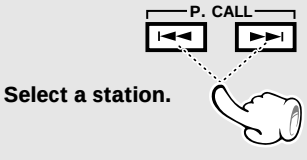
① **FM**
② **MW**
② **LW**



2. Select a station.

When no stations have been memorized

Auto tuning : **The next broadcasting station will be received automatically each time this key is pressed.**
Manual tuning : **Press the key repeatedly or hold it depressed until a station is received.**



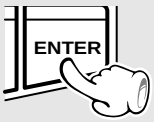
When stations have been memorized (preset call)

Every time the key is pressed, the preset stations are switched over as follows.

Press ►►| for the order of 1→2→3 ... 38→39→40→1...
Press |◄◄ for the order of 40→39→38 ... 3→2→1→40...

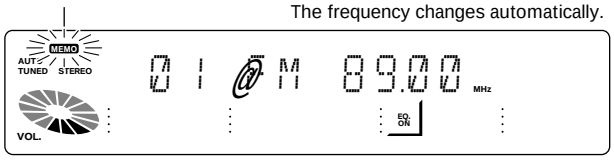
Collective presetting of stations (auto preset)

Keep the ENTER key depressed (about 2 seconds).



Blinks

The frequency changes automatically.



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

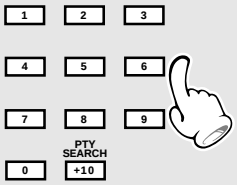
÷When there are many stations and the intended station has not been preset, please also use "One-by-one presetting (manual preset)".

One-by-one presetting (manual preset)

❶ Press the ENTER key during reception.

Presetting is cancelled when no operation is executed for 5 seconds or more.

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

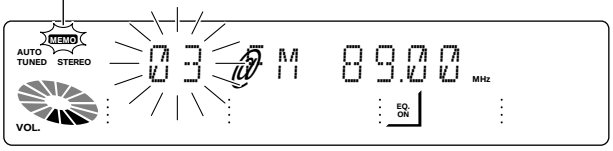


Press the numeric keys as shown below....

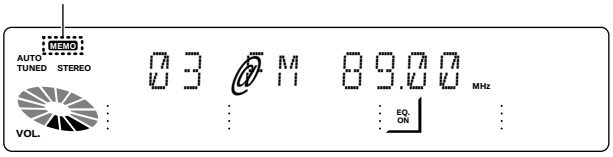
For storing under "15" : [+10] [5]

For storing under "40" : [+10] [+10] [+10] [+10] [0]

"MEMORY" lights (for approx. 5 sec.)



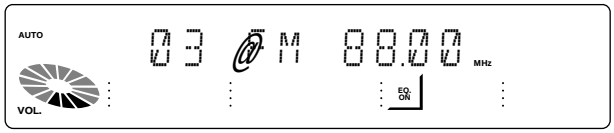
Goes off



÷Repeat steps ❶,❷ to preset other stations.

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

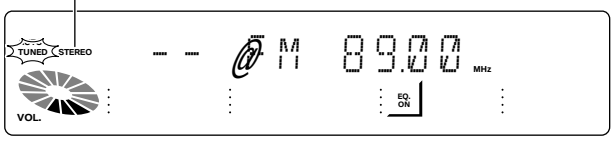
Reception band indication



The **"TUNED"** indicator lights when a station is received.

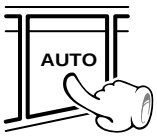
Lights during stereo reception

Frequency display



÷When a key is held depressed, preset stations will be skipped at an interval of about 0.5 second.

Select the tuning mode



Each press alternates the mode.

① "AUTO" lit (Auto tuning)

② "AUTO" not lit (Manual tuning)

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

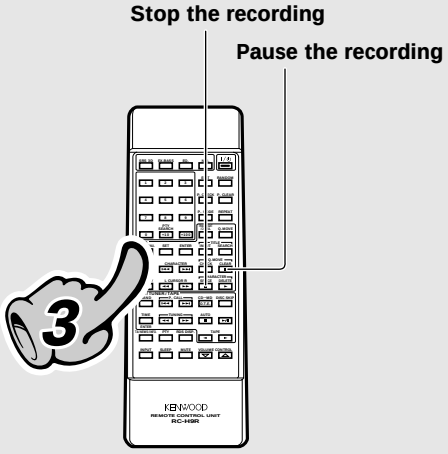
÷Normally, use the **AUTO** (Auto tuning) mode.

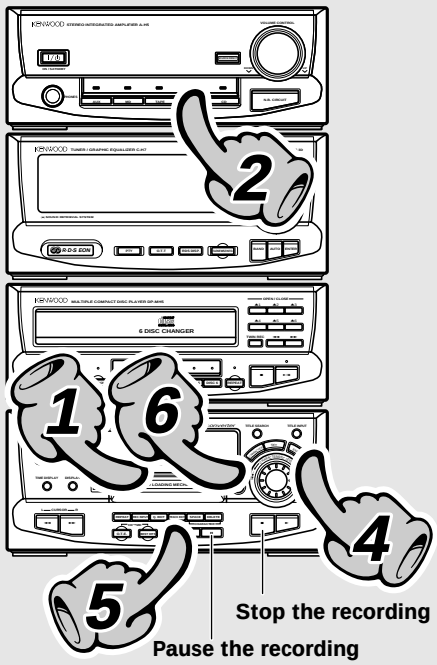
Recording on MD

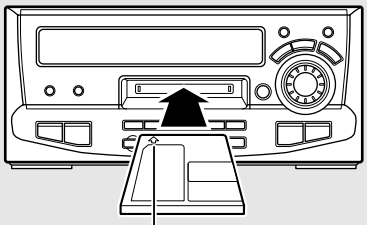
This unit cannot record audio in monaural mode.

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

When equalizer or SRS 3D is applied to the sound, the sound will be recorded with applied effect in the case of analog recording. →66 →67







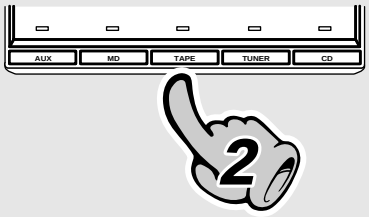
1. Make the preparations for recording.

❶ **Open the write protect tab of the Mini Disc to make it recordable.** →5
❷ **Load the Mini Disc.**
❸ **Check the remaining recording time.**

∞

Remaining recording time (when **"REMAIN"** is lit)

2. Select the source to be recorded.

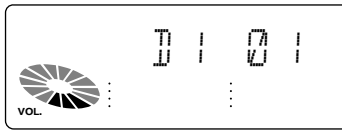


Go to step 5 for CD digital recording.

AUX : Digital 2 or analog recording
MD : Only Digital 2 →30
TAPE : Only analog recording
Broadcasts : Only analog recording
CD : Digital 1 or analog recording

For CD analog recording, refer to "How to use the REC INPUT key". →30

Indication of the input source to be recorded. (example of CD input)

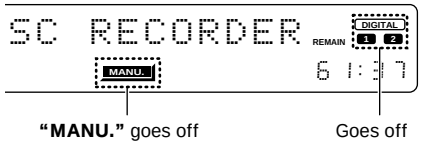


÷ While a CD or MD is set, play will start, so that the **STOP** (■) key must be pressed to stop the disc.
÷ For recording from the cassette deck X-H9 (option), please read "Listening to tapes" in the accessory operation manual.

3. Selecting how track numbers are assigned.

(only analog recording)

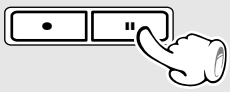
The normal setting is to AUTO ("MANUAL" is not lit).
"How to use the AUTO/MANU. key." →30



"MANU." goes off

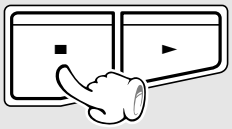
Goes off

Pause the recording



÷Press the key again to resume recording. At this time, the track number is incremented by "1".
÷Recording can also be started by pressing the record (●) key.

Stop the recording



In regard to display messages

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

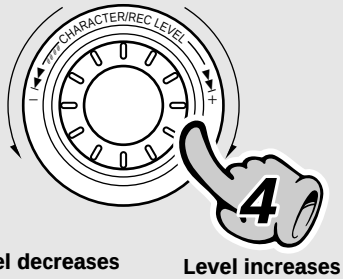
"DISC FULL" : **The minidisc is full.**
➡ Erase unrequired tracks. →64
"PROTECTED" : **The write protect tab is open.**
➡ Close it. →5
"UNRECORDABLE" : **The minidisc is only for playback.**
➡ Insert a recordable disc. →77

Sampling Frequencies

Normally the following three types of digital signals are used and they are called sampling frequencies.

48 kHz
44.1 kHz
32 kHz

As this unit has a built-in sampling rate converter, digital signals of 32 kHz and 48 kHz are converted to 44.1 kHz for recording.



4. Adjust the recording level *(only analog recording).*

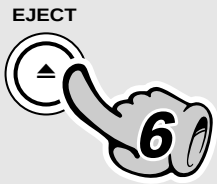
❶Play the source to be recorded.
❷Set to recording pause.
Always press the record (●) key in stopped condition, and then press the pause (II) key.
❸Adjust the recording level.

÷Adjustment is possible in the range from -∞ dB to 0 dB (81steps).
÷Adjust so that 0 dB lights only once in a while.
÷Lower the level when the red part of the level meter lights.

5. Start recording.

❶Press the record (●) key.
❷Play the music source to be recorded.

÷During recording, the **EJECT** (⏏) key will not be accepted.
÷To start recording simultaneously with CD playback, please read "Tips for recording from a CD". →30



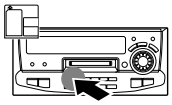
6. Remove the minidisc after the end of recording.

Always remove the minidisc after recording.

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

How to use the REC INPUT key

When the input selection is CD and recording is started, digital recording is selected automatically and adjustment of the recording level is not required.
When the playback level of a digitally recorded MD is not suitable (too loud or too low), the recording level can be adjusted by using the REC INPUT key to switch to analog recording, and then recording can be repeated with adjustment to the most suitable level.



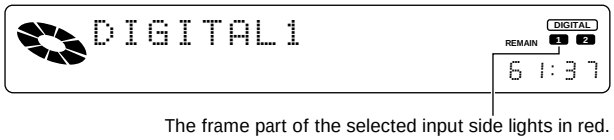
When the input selection is CD
Each press switches the modes as follows.
① "DIGITAL1" : Digital recording from the equipment connected to OPTICAL 1 jack
② "ANALOG" : Analog recording

When the input selection is not CD
Each press switches the modes as follows.
① "DIGITAL2" : Digital recording from the equipment connected to OPTICAL 2 jack
② "ANALOG" : Analog recording

÷When the input selection is MD, only **"DIGITAL 2"** can be selected.
÷When the input selection is TAPE or Broadcast, only **"ANALOG"** can be selected.

When analog input is selected

When DIGITAL 1 input is selected

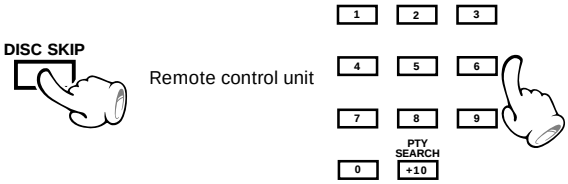


The frame part of the selected input side lights in red.

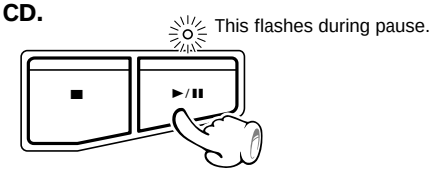
Tips for recording from a CD

When recording is started according to the following procedure, recording (MD) and playback (CD) will start at the same time and there is no worry of sound being skipped.

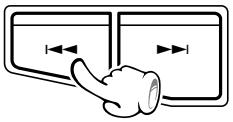
❶ Select the disc or the track to be recorded.



❷ Pause the CD.

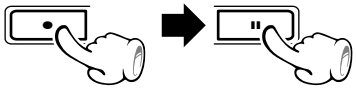


❸ Press the I◄◄ key of the CD once.

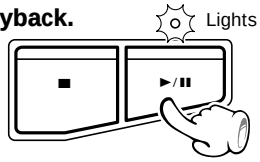


The CD will pause at the beginning of the selected disc (track).

❹ Bring the MD recorder to recording pause.



❺ Start CD playback.



÷In case of analog recording, it may not be possible to record the sound at the beginning of the title. In such a case, use digital recording.

How to use the AUTO/MANU. Key

This selects whether the track numbers are set automatically during analog recording or manually during or after recording.
The track numbers are used at the time of playback to find the start of tracks, for programming, etc.

AUTO

When a part without sound continues for 2 sec. or more during recording, the track number is automatically increased by "1" when the next sound enters. Use this mode for normal recording such as recording of all tracks of a CD. When music, such a classical music, continues with low sound, the track number may be increased by "1". The erroneously set track number can be erased later.
In case of such music, use MANUAL for recording.

Select before the start of recording

MANUAL

Recording is executed without automatically increasing the track number. Track numbers can be set during and after recording. This is convenient for recording of live performances or classical music with continuous sound at extremely low levels.

Each press switches the modes as follows.
① "MANUAL" not lit : AUTO mode
② "MANUAL" lit : MANUAL mode

Not lit with "AUTO", lit with "MANUAL".

Goes off

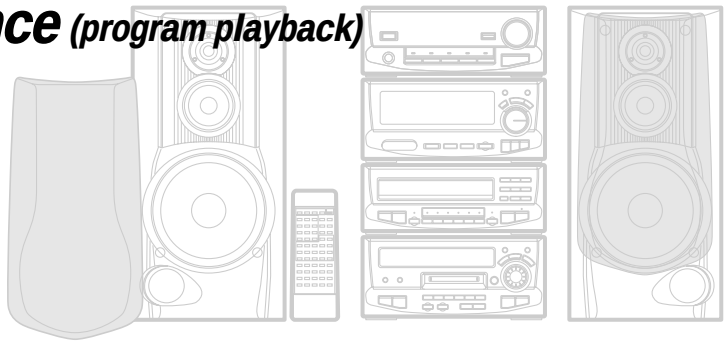
÷When the **TRACK EDIT** key is pressed during recording, a track number is assigned at that position.

Notes

1. At the time of recording from a CD, the track number may be incremented when CD playback starts. This occurs because of a signal included in the digital signal from the CD. Delete unwanted track numbers under reference to "TRACK ERASE or ALL ERASE". → 64
2. When a track is extremely short, the track number may not be incremented correctly in AUTO mode.

Listening in the desired sequence (program playback)

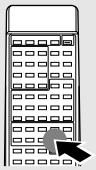
Any titles on the discs in the tray can be listened to in the desired sequence. (Max. 32 titles)



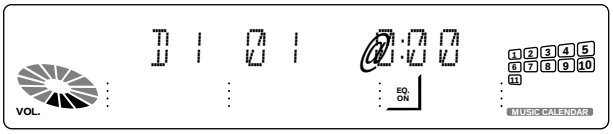
Character information display cannot be displayed while the spectrum analyzer display mode is used. Switch to the superposed display or character display mode to see the information.
→11 →69

Select the "CD" input.

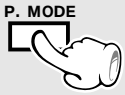
1 Check that the CD player is in the stop mode.



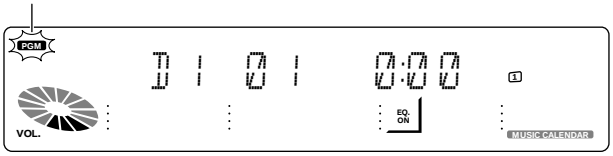
If it is in play mode



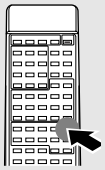
2 Light the "PGM" indicator.



Lights



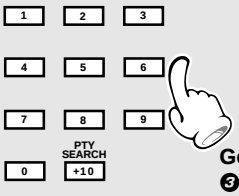
3 Enter track Nos. in the order you want to play them.



❶Select the disc.

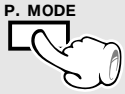
Go to step ❷ within 8 seconds.

❷Select the track.



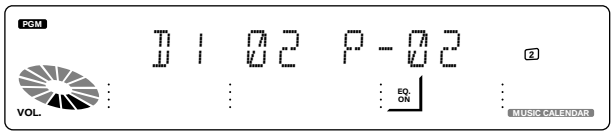
Go to step ❸ within 8 seconds.

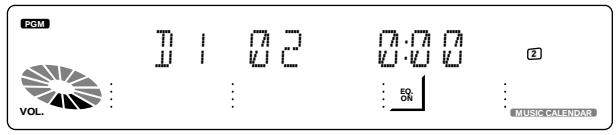
❸Confirm the selection.



To select tracks from more than one disc, repeat ❶ ,❷ and ❸.

- The disc can also be selected with the **DISC 1~DISC 6** key.
- Up to 32 tracks can be programmed. When **"FULL"** is displayed, no more tracks can be programmed.
- To program all tracks of a CD, select the disc and then press **P.MODE** key without selecting any tracks.
- If you make a mistake, press the **P.MODE** key to quit the program mode and restart from step ❷.



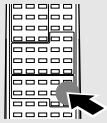


Press the numeric keys as shown below....

To enter track No. 23 : [+10] [+10] [3]

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

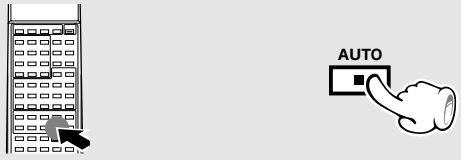
4 Start playback.



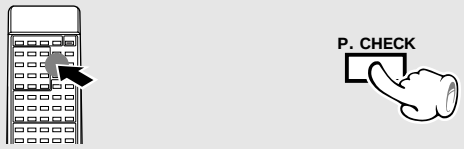
- Tracks will be played in the order they were programmed (in order of P Nos.).
- When the I◄◄ or the ►►I key is pressed during play, the program will jump to the preceding or the following track respectively.
- When the I◄◄ key is pressed once during playback, the play position returns to the beginning of the current track being played.

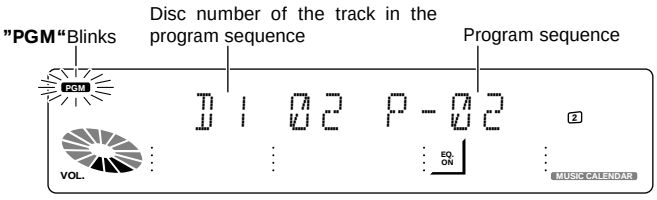
Character information display cannot be displayed while the spectrum analyzer display mode is used. Switch to the superposed display or character display mode to see the information.
→11 →69

To stop playback



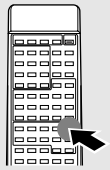
To check the programmed tracks





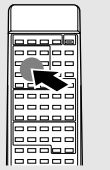
÷Each time the key is pressed, the program No. (P-NO) and the track No. on CD are displayed.

To add a track to the program

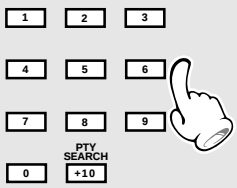


❶ Select the disc.

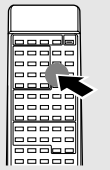
Go to step ❷ within 8 seconds.



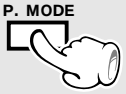
❷ Select the track.



Go to step ❸ within 8 seconds.

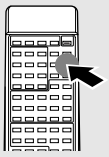


❸ Confirm the selection.

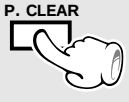


÷When a track No. is entered, the track will be added to the end of the existing program.

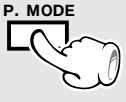
To quit the program mode



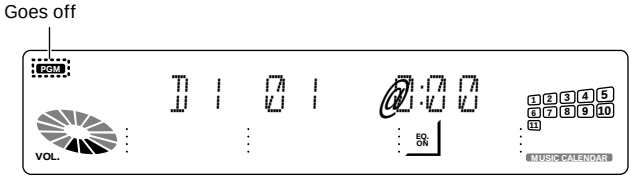
Press to clear tracks from the end.



To clear all track.



÷Each time the key is pressed, the last track in the program is cleared.
÷The track being played cannot be changed.



÷The entire program contents are erased when the disc tray is opened.

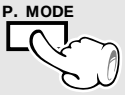
Repeated playback

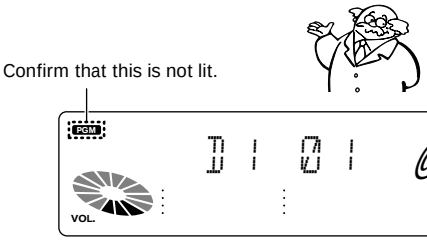
You can repeatedly listen to a favorite track or disc.

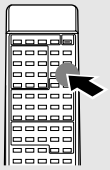
Select the "CD" input.

To repeat all discs

❶ Confirm that the "PGM" indicator is not lit.
If the "PGM" indicator is lit, press the P.MODE key to turn it off.





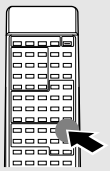


❷ Let the REPEAT indicator light.

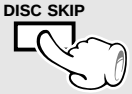
Each press switches the repeat mode.

① **REPEAT (Lights)**
② **Repeat OFF (Goes off)**

Lights



❸ Select the disc to be played first.

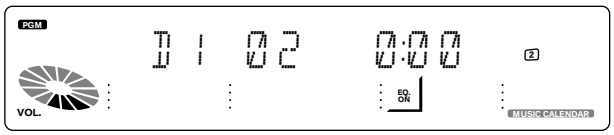


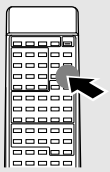
To stop repeated playback

Press the REPEAT key again.
÷The **REPEAT** indicator goes off and the playback following the current mode of the CD player starts.

To repeat only the programmed tracks

❶ Program the track sequence according to steps ❶ to ❸ of "Listening in the desired sequence". → 31



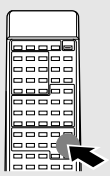


❷ Let the REPEAT indicator light.

Each press switches the repeat mode.

① **REPEAT (Lights)**
② **Repeat OFF (Goes off)**

Lights



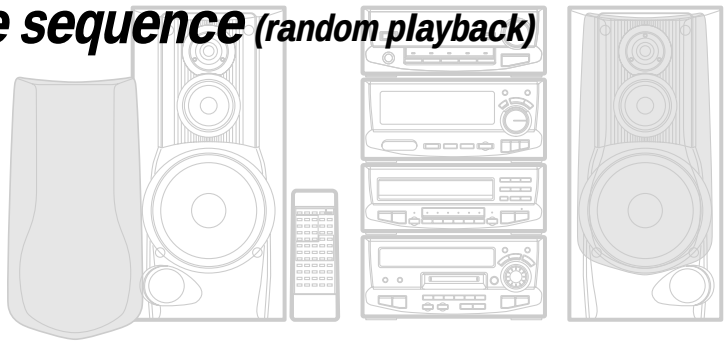
❸ Start playback.

To stop repeated playback

Press the REPEAT key again.
÷The **REPEAT** indicator goes off and the playback following the current mode of the CD player starts.

Listening to an unexpected title sequence (random playback)

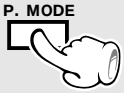
As the titles each time are selected randomly, the music can be enjoyed without getting tired of it.

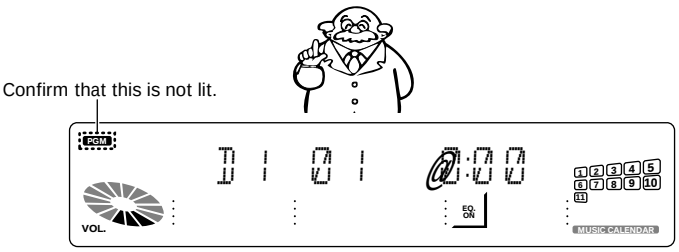


Select the "CD" input.

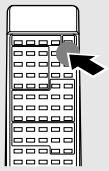
1 Confirm that the "PGM" indicator is not lit.

If the "PGM" indicator is lit, press the P.MODE key to turn it off.





2 Select the RANDOM mode.



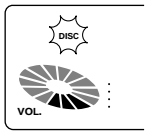
Please select the disc before selecting DISC RANDOM.

Each press switches the modes as follows.

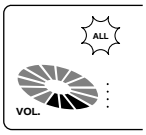
- ① **DISC RANDOM (Lights) .... Random play of one disc.**
- ② **ALL RANDOM (Lights) ..... Random play of all discs.**
- ③ **Normal playback (Goes off)**

Lights

For random playback of one disc

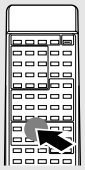


For random playback of all discs



÷Playback stops after each title has been played once.
÷The random playback can also be repeated by pressing the **REPEAT** key.

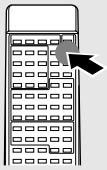
To select another track in the middle of playing one



÷Pressing the I◄◄ key once returns to the beginning of the track being played.

To cancel random playback

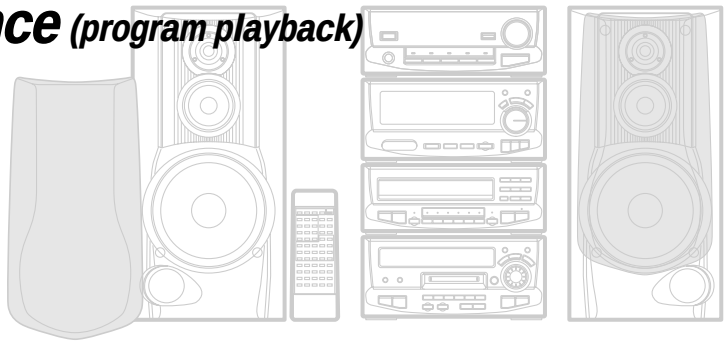
Press so that the RANDOM indicator goes off.



÷The **"RANDOM"** indicator goes off and the playback in order of the tracks starts from the track being played.

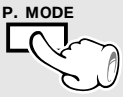
Listening in the desired sequence (program playback)

Use the following procedure to program desired tracks in a desired order. (up to 25 tracks)

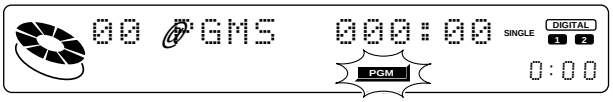


Select the "MD" input.

1 Let the "PGM" indicator light.



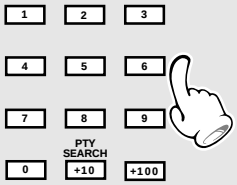
Press in stop mode.



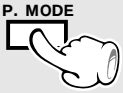
Lights

2 Select track numbers in the order you want to play them.

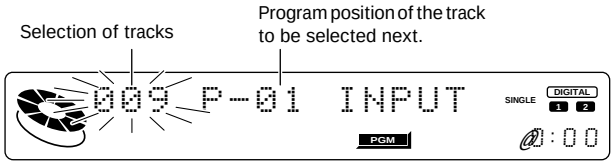
❶Select the track.



❷Confirm the selection.



Repeat ❶ and ❷ for selection of two or more tracks.



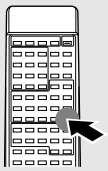
Press the numeric keys as shown below....

To enter track No. 23 : [+10] [+10] [3]

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

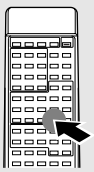
÷Up to 25 tracks can be programmed. More than 25 tracks cannot be selected.
÷If you made a mistake, press the **P.CLEAR** key and enter the track No. again.
÷An extremely short track cannot be programmed.
÷**"-- -- --:-- --"** is displayed when the total programmed period has attained 200 minutes or more.

3 Start playback.



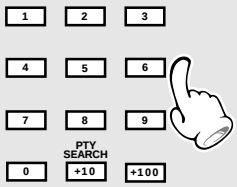
÷Tracks will be played in the order they are programmed.
÷When the ⏮ or ⏭ key is pressed during playback, tracks will be skipped in the direction of the pressed key.

To stop playback



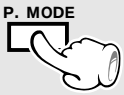
To add a track to the program

❶Select the track.



Press in stop mode.

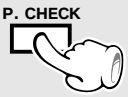
❷Confirm the selection.



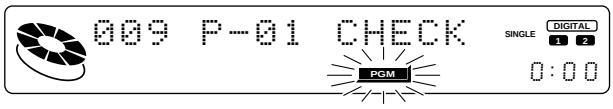
Repeat ❶ and ❷ for selection of two or more tracks.

÷When a track No. is entered, the track will be added to the end of the existing program.

Checking the order of tracks



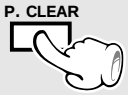
The **"PGM"** indicator blinks



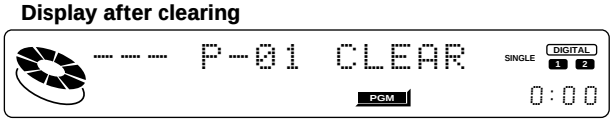
÷Each press displays the next track in the program.

To clear tracks from the program

Clearing tracks from the end



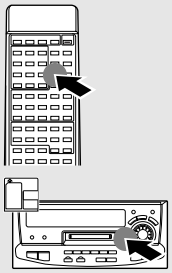
Display after clearing



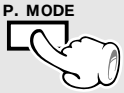
(P-01 has been deleted.)

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

Clearing all tracks

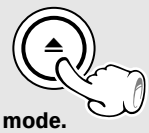


Remote control unit



or

Main unit
EJECT



Press in stop mode.

÷The entire program is cleared.

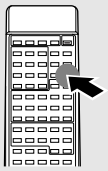
XD-9580MD (En)

Repeated playback

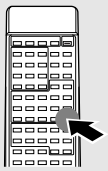
Select the "MD" input.

To repeat only the programmed tracks

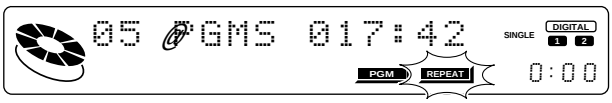
❶ **Program the track sequence according to steps 1 to 2 of "Listening in the desired sequence".** → 35



❷ **Let the "REPEAT" indicator light.**



❸ **Start playback.**



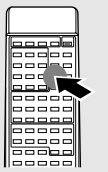
"REPEAT", "PGM" light.

÷All of the programmed tracks will be repeated.
÷In case only one track is programmed, only that track will be repeated.

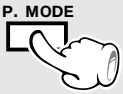
To stop repeated playback

Press the REPEAT key again.
÷The **"REPEAT"** indicator goes off and the playback following the current mode of the MD recorder.

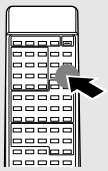
To repeat the entire disc



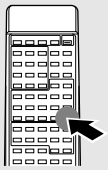
❶ **Confirm that the "PGM" indicator is not lit.**



Press in stop mode.



❷ **Let the "REPEAT" indicator light.**



❸ **Start playback.**

"PGM" goes off, **"REPEAT"** light.

To stop repeated playback

Press the REPEAT key again.
÷The **"REPEAT"** indicator goes off and the playback following the current mode of the MD recorder.

R.D.S. *(Radio Data System)*

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.

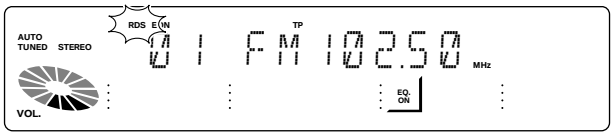
This unit is equipped with the following functions utilizing RDS data :

PTY (Program Type Identification) Search : → 40
The tuner automatically searches for a station which is currently broadcasting a specified program type (genre).

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

EON (Enhanced Other Network) : → 42
When the information to be received is set in advance and any RDS station in the same network starts broadcasting of such information, the reception automatically will be switched to that station.

The **"RDS"** indicator lights up when an RDS broadcast (signal) is received.



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

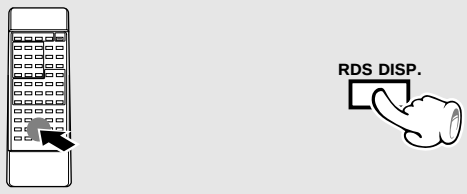
Before using RDS

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

Set the reception band to FM. Preset RDS stations with the auto preset function. → 26

To switch the display contents

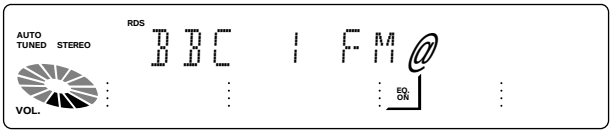
Pressing the RDS DISP. key changes the display contents.



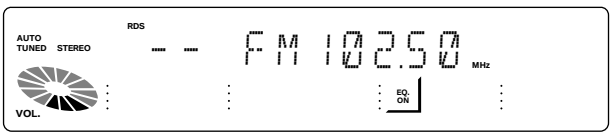
Display mode priority ranking

When an RDS broadcast is received

① **PS (Program Service Name) Display :**
When an RDS broadcast is received, the station name is automatically displayed.
If no PS data was sent, "NO PS" is displayed.

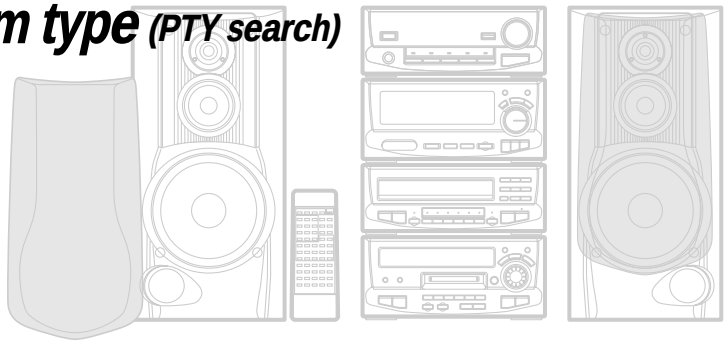


② **Frequency Display :**
The frequency of the current station is displayed.



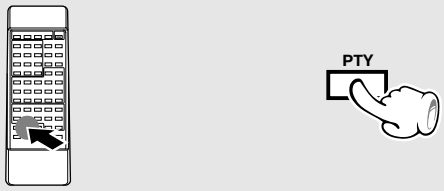
Searching for a desired program type (PTY search)

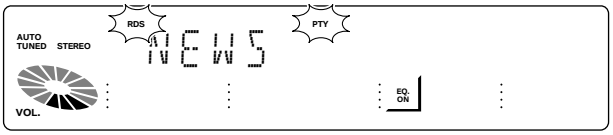
By specifying the type of program (genre) you want to listen to, the tuner automatically searches for a station which is currently broadcasting a program of the specified type.



Set the reception band to FM. Preset RDS stations with the auto preset function. → 26

1 Select the PTY search mode.

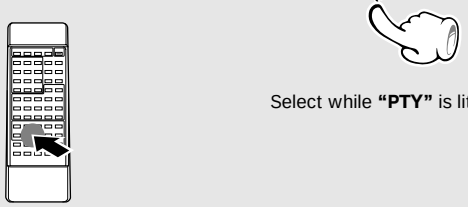




When an RDS broadcast is received, the program type is shown on the display. If no PTY data is available, or if the station is not an RDS station, "NONE" is displayed.

2 Select the desired program type.

Use program type table on the right for your convenience.



Select while **"PTY"** is lit.

The desired program type can be selected with the TUNING keys from 31 types. Press the key and release it when the desired type is displayed.

Program type table

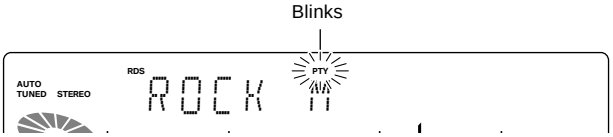
TUNING keys	Program Type Name	Display
◄◄ DOWN	Pop Music	POP M
	Rock Music	ROCK M
	*M.O.R. Music	M.O.R. M
	Light Classical	LIGHT M
	Serious Classical	CLASSICS
	Other Music	OTHER M
	News	NEWS
	Current Affairs	AFFAIRS
	Information	INFO
	Sport	SPORT
	Education	EDUCATE
UP ►►	Drama	DRAMA
	Culture	CULTURE
	Science	SCIENCE
	Varied	VARIED
	Weather	WEATHER
	Finance	FINANCE
	Children's programs	CHILDREN
	Social affairs	SOCIAL A
	Religion	RELIGION
	Phone in	PHONE IN
	Travel	TRAVEL
	Leisure	LEISURE
	Jazz music	JAZZ
	Country music	COUNTRY
	National music	NATION M
	Oldies music	OLDIES
	Folk music	FOLK M
	Documentary	DOCUMENT
	Alarm test	TEST
	Alarm	ALARM

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

3 Start the search.

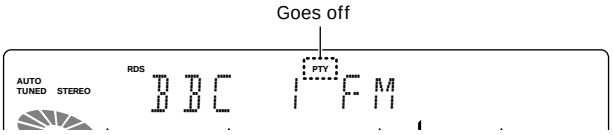
When searching for a Rock Music broadcast

Display while the tuner is searching.



Program type name display.

When a station is received.



Station name display.

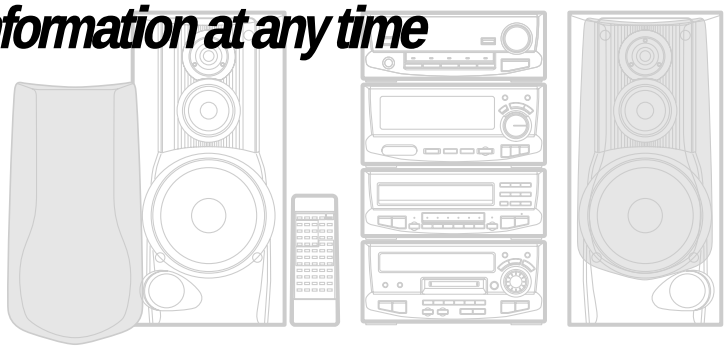
To change to a different program type :

Repeat steps 1, 2, 3.

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

To be able to listen to the desired information at any time

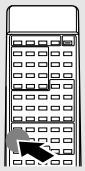
By using the EON function, which manages the information of other stations, listening to desired information like traffic information or news etc. can be reserved even when it is not being transmitted at the present. When listening to a station with the "EON"display lit and another station of the same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



Set the reception band to FM.

→ 24

1 Auto preset the stations.



❶ Receive a broadcast.

❷ Keep the ENTER key pressed (2 sec or longer).

The EON data presently being broadcasted are taken in automatically.

This is not required when auto presetting has already been executed. ∞

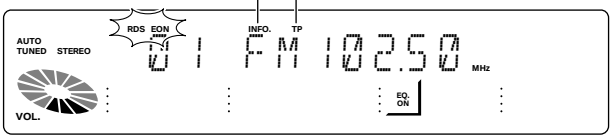
÷When all 40 stations have already been preset by the procedure for "One-by-one presetting (manual preset)", the EON function will not operate. Auto presetting must be used.

2 Select the desired information.

Each press switches the modes as follows.

① TA.....Traffic Announcement
② NEWS..... News
③ INFO.....Information
④ Display not lit.....EON cancelled

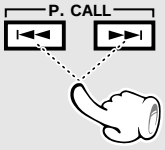
Lights when **"INFO"** is selected. This lights when a station transmits traffic information.



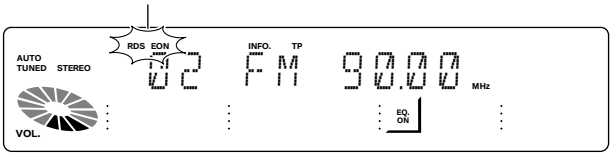
÷Please execute automatic presetting when **TA**, **NEWS**, and **INFO** cannot be selected.

3 Receive an RDS station.

Select a station where "RDS" and "EON" are lit.



"RDS" and **"EON"** are lit.



÷When **"EON"** does not light although an RDS station is received, that station is not transmitting EON data. Please select a different station.
÷When TA is desired, select a station where the **"TP"** display lights.

4 Wait for the desired information.

CD or MD playback may also be started. As long as the unit is ON, the unit is always ready for the reception.

÷ When one of the stations of the network of the station received in 3 starts broadcasting the program contents selected in 2, that station will be received automatically. At this time, MD playback and CD playback will pause. However, external equipment (AUX, TAPE) will remain as it is.
÷ When the unit is OFF and during recording (including dubbing), the EON function does not operate.
÷ When the transmission of the selected program contents ends in case of automatic reception with the EON function, return will be made to the status directly before operation of the EON function. When MD or CD playback has been interrupted, it will be continued from the point of interruption.

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

When there is no "EON" display with the operations of steps 3 and 4 and the desired information is selected in advance, waiting for the desired information will be done only with the presently received RDS station.

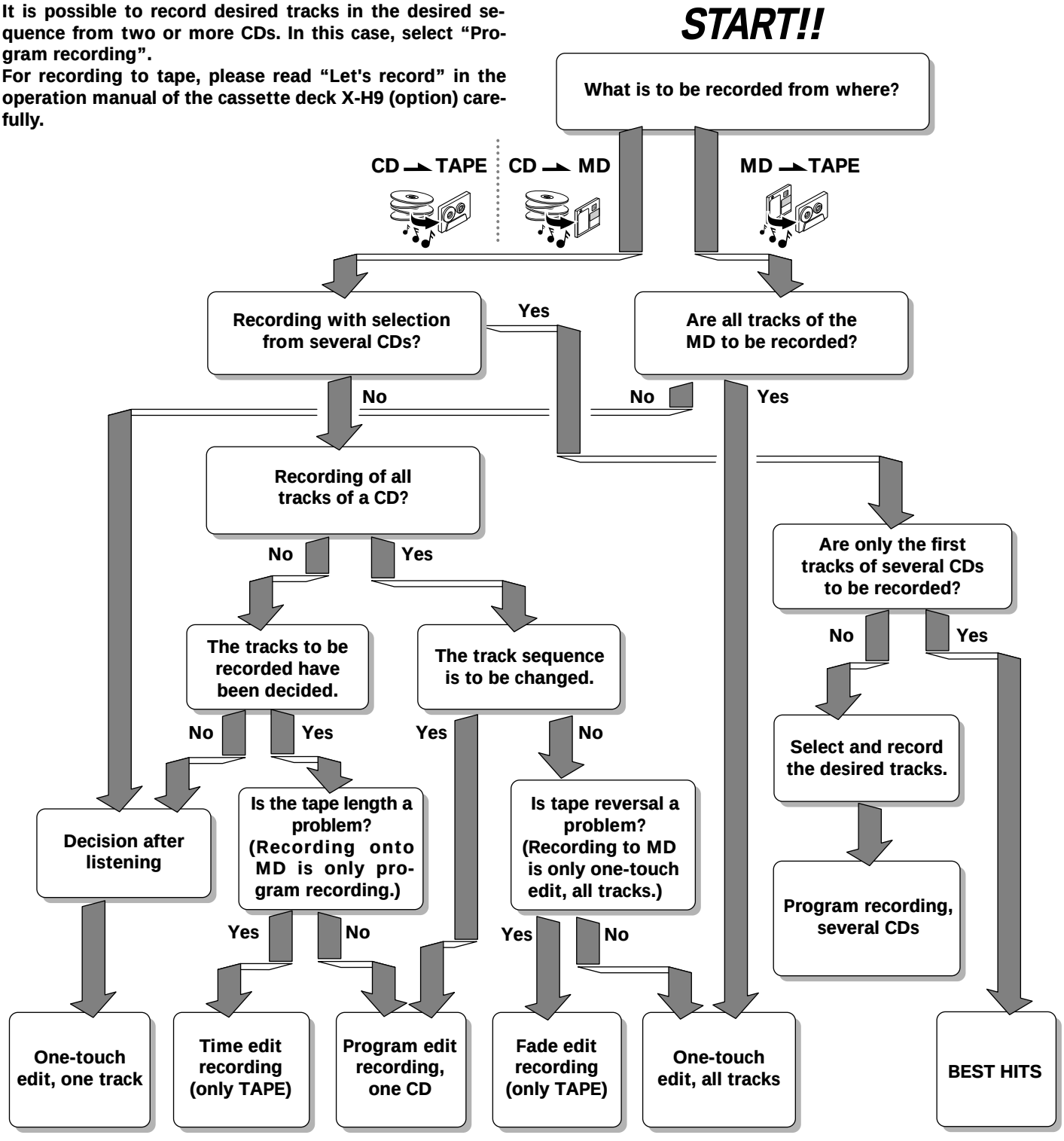
In regard to TP (Traffic Program) indicator

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

Selection of the recording type

This chapter explains also the cassette deck recording functions under consideration of combination with the cassette deck X-H9 (option).

Many convenient recording functions have been provided. Please select them according to the application.
It is possible to record desired tracks in the desired sequence from two or more CDs. In this case, select "Program recording".
For recording to tape, please read "Let's record" in the operation manual of the cassette deck X-H9 (option) carefully.



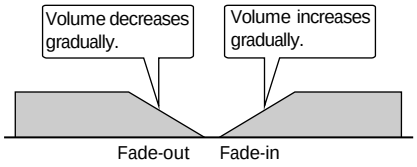
Convenient function

TWIN RECORDING function : This function permits simultaneous recording from a CD to MD and tape. All titles of a CD are recorded in the same order as on the CD. → 48

What is CCRS? (only cassette deck X-H9 (option))

This is a function for one-touch recording of a CD onto tape. When the CCRS key is pressed, the CD contents and the characteristics of the tape to be used are checked for about 60 sec. (depending on the CD contents), the recording level is set automatically, and recording starts. At the end of the recording, stop is executed automatically.
The setting is cancelled when the unit is switched OFF (STANDBY) or the CD is stopped.

Fade-in/fade-out

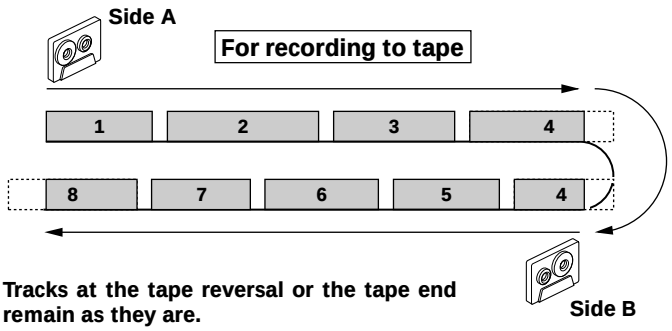


Fade-out : Ending a tune by gradually decreasing the volume.
Fade-in : Starting a tune by gradually increasing the volume.

A *One-touch recording of one CD, MD*

(One-touch edit recording of all tracks) → 46

All tracks of one CD or MD are recorded. Recording is possible to tape or MD from CD and to tape from MD.



Tracks at the tape reversal or the tape end remain as they are.

B *When a desired track is found, only that track is recorded*

(One-touch edit recording of one track) → 47

While listening to a CD or MD, it is possible to record only the track being heard at that time from the beginning of that track. Recording is possible to tape or MD from CD and to tape from MD. This is convenient for recording of desired tracks from a disc being heard for the first time.

C *Producing an MD or a tape collecting only the first titles (BEST HITS function)*

→ 49

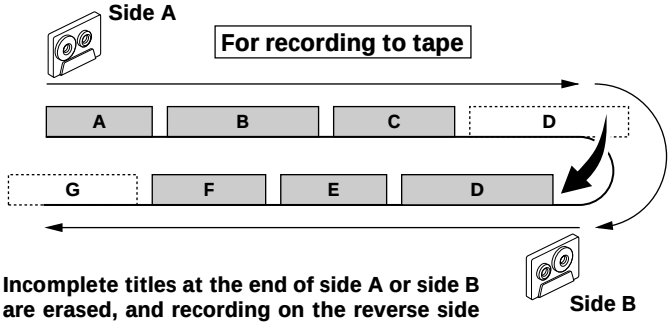
This is the function for recording the first title of all set CDs in sequence to an MD or to tape.

D *Recording of one CD or several CDs (CD → MD)* → 50 *(CD → TAPE)* → 51

(Program edit recording)

From one CD

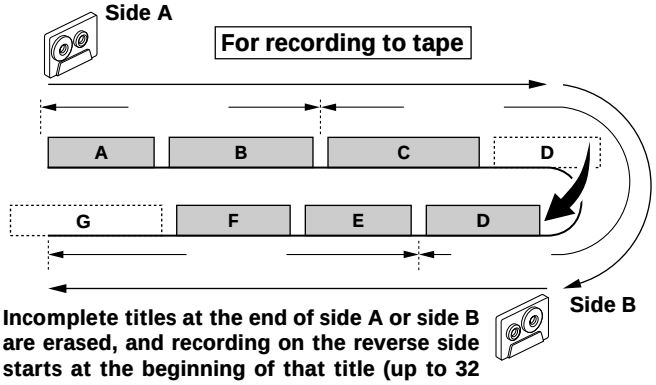
Recording is made in the programmed sequence from CD to MD or tape.



Incomplete titles at the end of side A or side B are erased, and recording on the reverse side starts at the beginning of that title (up to 32 titles).

From 2 or more CDs

The desired titles from several CDs can be recorded to an MD or to tape.

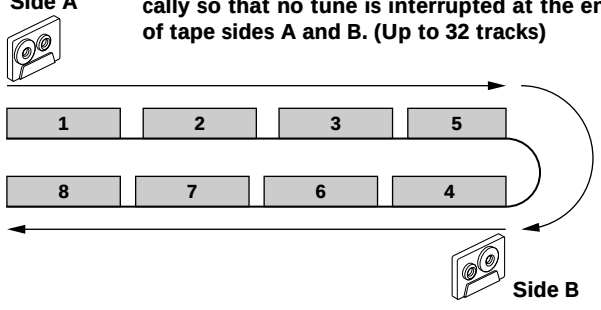


Incomplete titles at the end of side A or side B are erased, and recording on the reverse side starts at the beginning of that title (up to 32 titles).

E *Change of the track sequence according to the tape length*

(CD → TAPE only) (Time edit recording) → 52

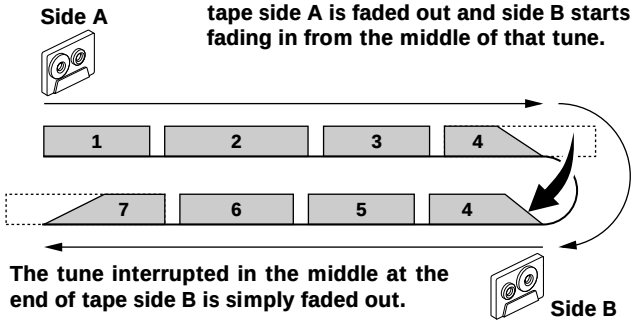
The order of CD tracks are changed automatically so that no tune is interrupted at the end of tape sides A and B. (Up to 32 tracks)



F *Fade-out/Fade-in at the tape reversal*

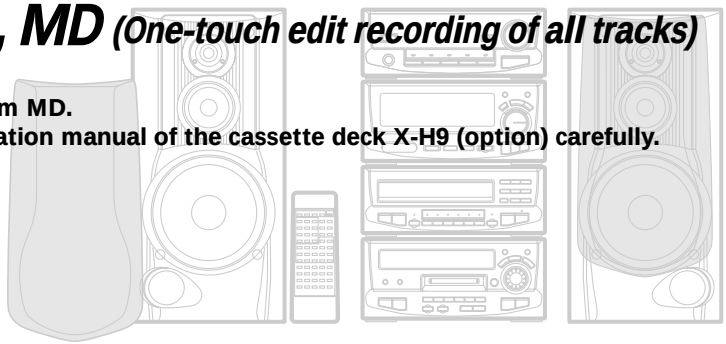
(CD → TAPE only) (Fade edit recording) → 54

CD tracks are recorded in the order they are recorded. The tune interrupted at the end of tape side A is faded out and side B starts with fading in from the middle of that tune.



The tune interrupted in the middle at the end of tape side B is simply faded out.

One-touch recording of one CD, MD (One-touch edit recording of all tracks)



All tracks of one CD or MD are recorded.
Recording is possible to tape or MD from CD and to tape from MD.
For recording to tape, please read "Let's record" in the operation manual of the cassette deck X-H9 (option) carefully.

When equalizer, SRS 3D, or any other effect is applied to the sound, the sound with applied effect can be recorded (except for digital recording from CD to MD).
→66 →67

1 Make the preparations for recording.

CD → MD

❶Insert a recordable disc into the MD recorder.
❷Select "CD" with the input selection key.
❸Insert disc(s) in the CD player.
→20

MD → TAPE

❶Load a tape.
❷Select the tape transport direction. (◄ or ►)
❸Select "⊃". (two-side recording)
❹Select the Dolby NR mode.
❺Select "MD" with the input selection key.
❻Insert disc(s) in the MD recorder.
→22
❼Adjust the recording level.

CD → TAPE

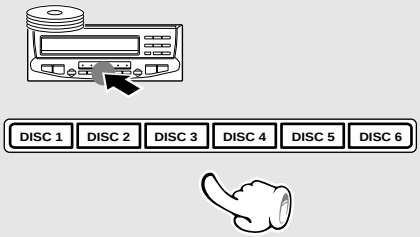
❶Load a tape.
❷Select the tape transport direction. (◄ or ►)
❸Select "⊃". (two-side recording)
❹Select the Dolby NR mode.
❺Select "CD" with the input selection key.
❻Insert disc(s) in the CD player.
→20
❼Adjust the recording level.

2 Start recording.

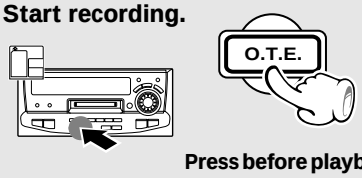
CD player and MD recorder must be brought to stopped condition.

CD → MD

❶Select the target disc.



❷Start recording.



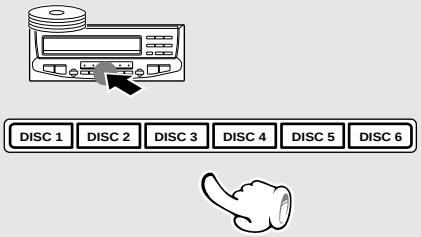
Press before playback of the CD starts.

MD → TAPE

Press in stop mode.

CD → TAPE

❶Select the target disc.



❷Start recording.

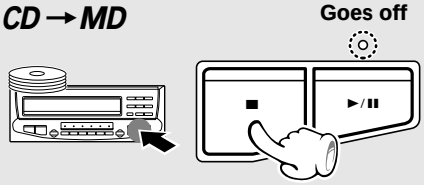
Press before playback of the CD starts.

When the O.T.E. key is pressed after playback has started, only the track being played at that time will be recorded.
→47

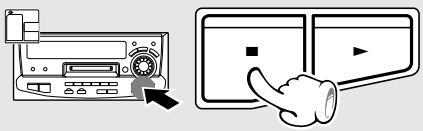
÷ With recording onto tape, the track will be interrupted for the part of the guide tape at the tape reversal, where recording is not possible. Please use a different recording method if this is to be avoided.

To interrupt a recording

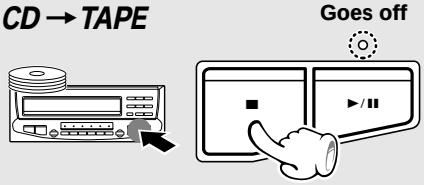
CD → MD



MD → TAPE



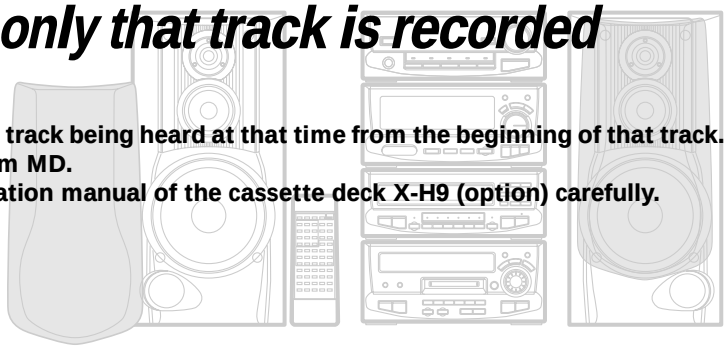
CD → TAPE



÷Recording and playback will be stopped.

When a desired track is found, only that track is recorded

(One-touch edit recording of one track)



While listening to a CD or MD, it is possible to record only the track being heard at that time from the beginning of that track.
Recording is possible to tape or MD from CD and to tape from MD.
For recording to tape, please read "Let's record" in the operation manual of the cassette deck X-H9 (option) carefully.

When equalizer, SRS 3D, or any other effect is applied to the sound, the sound with applied effect can be recorded (except for digital recording from CD to MD).
→66 →67

1 Make the preparations for recording.

CD → MD

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MD → TAPE

❶ Load a tape.
❷ Select the tape transport direction. (◄ or ►)
❸ Select "⊃". (two-side recording)
❹ Select the Dolby NR mode.
❺ Select "MD" with the input selection key.
❻ Insert disc(s) in the MD recorder.
→22
❼ Adjust the recording level.

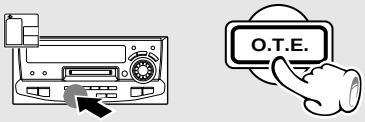
CD → TAPE

❶ Load a tape.
❷ Select the tape transport direction. (◄ or ►)
❸ Select "⊃". (two-side recording)
❹ Select the Dolby NR mode.
❺ Select "CD" with the input selection key.
❻ Insert disc(s) in the CD player.
→20
❼ Adjust the recording level.

2 Playback of a CD or MD.

3 Press the O.T.E. key during playback of a track to be recorded.

CD → MD



Press during playback.

MD → TAPE

Press during playback.

CD → TAPE

Press during playback.

÷Return is made to the beginning of the track being played and recording starts.

At the end of the recording

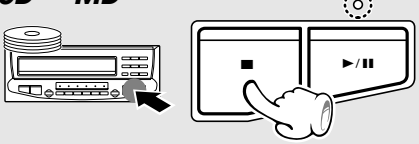
MD recorder : Stop.
Cassette deck : Stop is executed after an unrecorded portion of about 4 sec. has been produced.

The unit on the playback side (CD player or MD recorder) pauses.

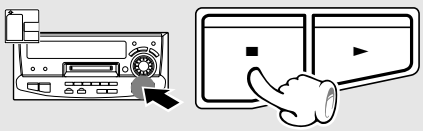
To record another track ... repeat the steps 2 and 3.

To interrupt a recording

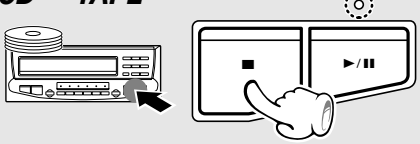
CD → MD



MD → TAPE



CD → TAPE



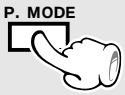
÷Recording and playback will be stopped.

Recording preparation is required. → 46

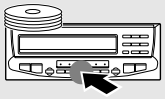
TWIN RECORDING Function

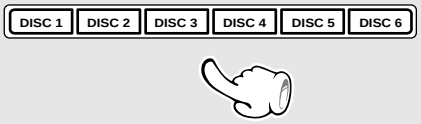
This is the function for simultaneous recording from CD to MD and tape. All tracks of a CD are recorded in the sequence on the CD.
For recording to tape, please read "Let's record" in the operation manual of the cassette deck X-H9 (option) carefully.

❶ Confirm that the "PGM" indicator is not lit.

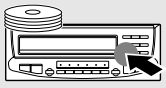


❷ Select the target disc.

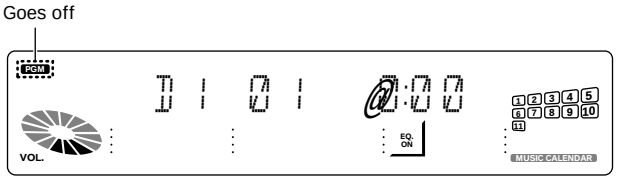




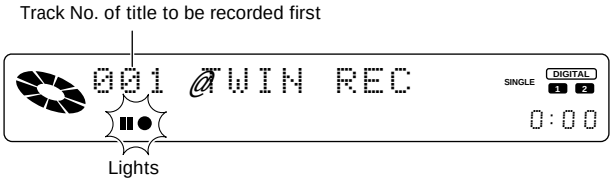
❸ Press the TWIN REC key.



÷ The recording input to the MD recorder automatically becomes **"DIGITAL1"**.



MD recorder display during tape deck recording level adjustment



÷ The recording level will be adjusted automatically in approx. 60 seconds (variable depending on CD contents), after which recording starts.
÷ Measures are taken automatically so that no track is interrupted at the tape reversal. Short soundless portions may be inserted between the tracks on the MD because of this processing.

To Interrupt a Recording

Recording and playback are stopped when the ■ key of the CD player is pressed.

Application section

Notes

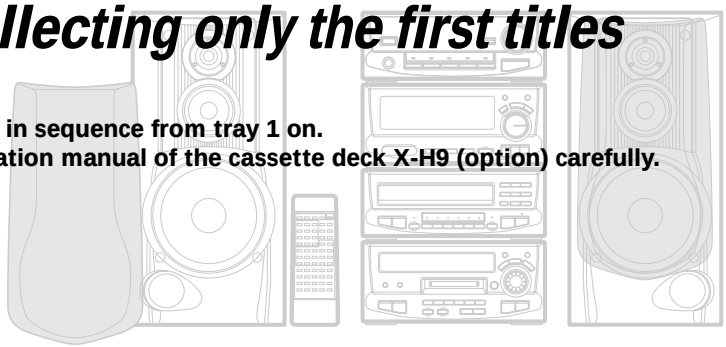
1. When the **TWIN REC** key is pressed while the CD player is playing, the playback will be stopped and CCRS setting (edit recording preparation) will begin.
2. The automatic setting of the recording level for edit recording uses the portions of the set CD suitable for setting the recording level.
3. If the deck is set for one-side recording(⇄), the processing at the tape end is applied only to side A.

XD-9580MD (En)

Producing an MD or a tape collecting only the first titles

(BEST HITS function)

The first tracks of all set CDs will be recorded on MD or tape in sequence from tray 1 on.
For recording to tape, please read "Let's record" in the operation manual of the cassette deck X-H9 (option) carefully.



When equalizer, SRS 3D, or any other effect is applied to the sound, the sound with applied effect can be recorded (except for digital recording from CD to MD).
→ 66 → 67

1 Make the preparations for recording.

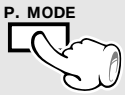
CD→MD

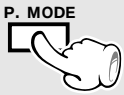
❶ Insert a recordable disc into the MD recorder.
❷ Select "CD" with the input selection key.
❸ Insert disc(s) in the CD player.
(Insert CDs in the order to be recorded from tray 1 on.)
→ 20

CD→TAPE

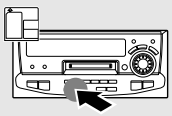
❶ Load a tape.
❷ Select the tape transport direction. (◄ or ►)
❸ Select "⊃". (two-side recording)
❹ Select the Dolby NR mode.
❺ Select "CD" with the input selection key.
❻ Insert disc(s) in the CD player. → 20
❼ Adjust the recording level.

2 Confirm that the "PGM" indicator is not lit.

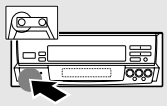




3 Press the BEST HITS key.



Press in stop mode.



Press in stop mode.

÷When a disc tray is opened during recording with the BEST HITS function, the recording is ended.

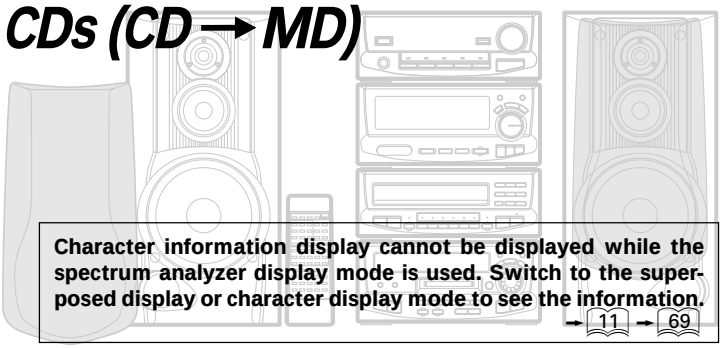
To Interrupt a Recording

Recording and playback are stopped when the ■ key of the CD player is pressed.

Recording of one CD or several CDs (CD → MD)

(Program edit recording)

The desired tracks from 6 CDs can be recorded in the programmed sequence on one MD.

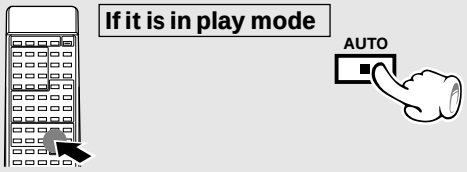


When equalizer, SRS 3D, or any other effect is applied to the sound, the sound with applied effect can be recorded (except for digital recording from CD to MD).
→ 66 → 67

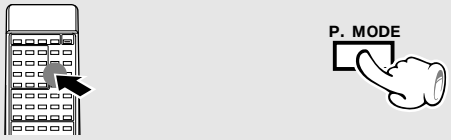
Character information display cannot be displayed while the spectrum analyzer display mode is used. Switch to the superposed display or character display mode to see the information.
→ 11 → 69

Recording preparation is required. → 46

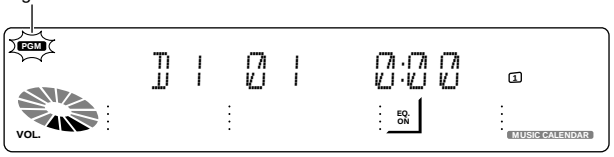
1 Check that the CD player is in the stop mode.



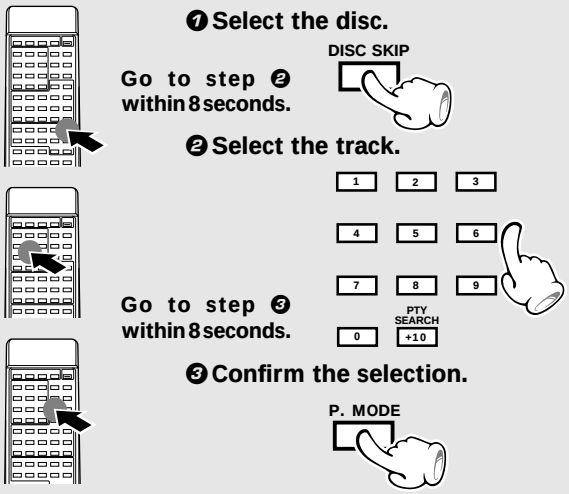
2 Light the "PGM" indicator.



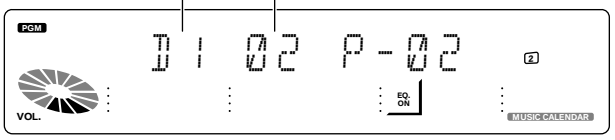
Lights



3 Enter disc Nos. and track Nos. in the order you want to record them.



The selected disc No. is shown
Displays the entered track No.

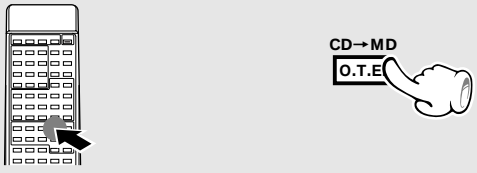


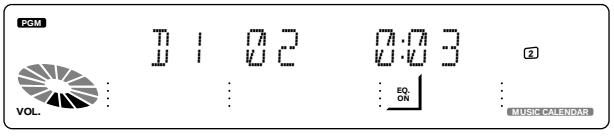
÷Select so that the usable recording time of the MD is not exceeded.
÷Up to 32 tracks can be programmed. When **"FULL"** is displayed, no more tracks can be programmed.
÷If you make a mistake, press the **P.CLEAR** key and enter the track No. from the beginning.
÷When the **P.MODE** key is pressed without selecting a title after selection of a disc, all titles of the disc are programmed, so that the O.T.E. function does not operate. Please begin again from step **7**.
÷The **REPEAT** key is not effective.

To edit tracks from more than one CD, repeat ❶ , ❷ , ❸ for each CD.

To check the edited contents → 53
To clear the edited contents → 53

4 Start edit recording.





÷The MD recording is paused while the CD is exchanged in the tray.
÷Tracks programmed in excess of the MD recording time will be cut off.

Note: Always remove the minidisc after recording.

XD-9580MD (En)

Recording of one CD or several CDs (CD → TAPE)

(Program edit recording)

The desired tracks from 6 CDs can be recorded in the programmed sequence on one tape.
Please read "Let's record" in the operation manual of the cassette deck X-H9 (option) carefully.

When equalizer, SRS 3D, or any other effect is applied to the sound, the sound with applied effect can be recorded.

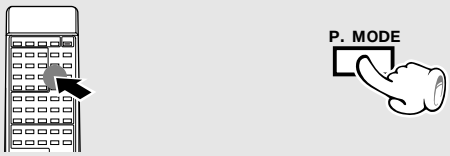
→ 66 → 67

Character information display cannot be displayed while the spectrum analyzer display mode is used. Switch to the superposed display or character display mode to see the information.

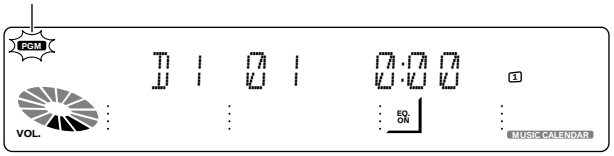
→ 11 → 69

Recording preparation is required. → 46

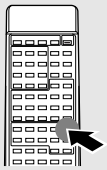
1 Light the "PGM" indicator.



Lights



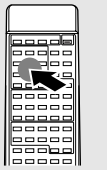
2 Enter disc Nos. and track Nos. in the order you want to record them.

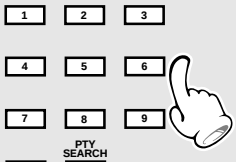


❶ **Select the disc.**

Go to step ❷ within 8 seconds.

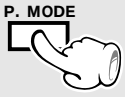
❷ **Select the track.**



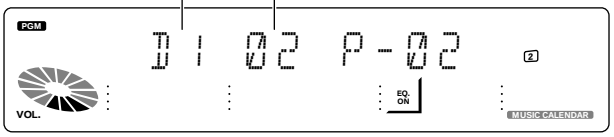


Go to step ❸ within 8 seconds.

❸ **Confirm the selection.**



The selected disc No. is shown
Displays the entered track No.

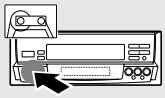


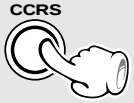
÷Select CD tracks so that their total playing time does not exceed the recording time of the tape.
÷Up to 32 tracks can be programmed. When **"FULL"** is displayed, no more tracks can be programmed.
÷If you make a mistake, press the **P.CLEAR** key and enter the track No. from the beginning.
÷When the **P.MODE** key is pressed without selecting a title after selection of a disc, all titles of the disc are programmed, so that the CCRS function does not operate. Please begin again from step ❶.
÷The **REPEAT** key is not effective.

To edit tracks from more than one CD, repeat ❶ , ❷ , ❸ for each CD.

To check the edited contents → 53
To clear the edited contents → 53

3 Start edit recording.





÷The recording level will be adjusted automatically in approx. 60 seconds (variable depending on CD contents), after which recording starts.
÷For editing from two or more CDs, CCRS setting is executed each time the disc is changed.

Notes

1. When the **CCRS** key is pressed during playback of CD, the playback stops and the CCRS setting (preparing edited recording) starts.
2. Edit recording is not possible with CDs containing a track that is longer than one tape side, which may occur with classical music, etc.
3. If the deck is set for one-side recording (⇄), the processing at the tape end is applied only on side A.

Change of the track sequence according to the tape length (CD → TAPE only) (Time edit recording)

By specifying the recording time of the tape used, CD tracks can be recorded with their order automatically changed so that no tune is interrupted at the end of tape sides A and B.
Please read "Let's record" in the operation manual of the cassette deck X-H9 (option) carefully.

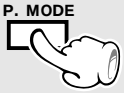
When equalizer or SRS 3D is applied to the sound, the sound will be recorded with applied effect.
→ 66 → 67

Character information display cannot be displayed while the spectrum analyzer display mode is used. Switch to the superposed display or character display mode to see the information.
→ 11 → 69

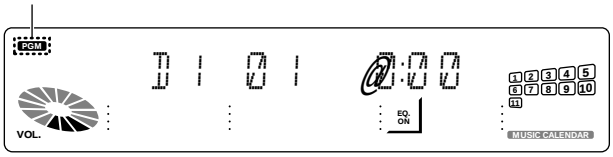
Recording preparation is required. → 46

1 Make sure that the "PGM" indicator is off.

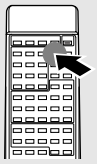
❶ **Select "CD" with the input selection key.**
❷ **Make sure that the "PGM" indicator is off.**



Goes off

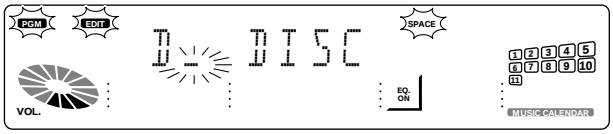


2 Light the "EDIT" indicator.

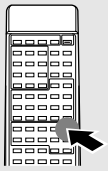


Editing is cancelled in case of waiting for 8 sec. or more.

"PGM", **"EDIT"**, and **"SPACE"** are lit.



3 Enter the disc and tape conditions.



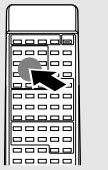
❶ **Select the disc.**

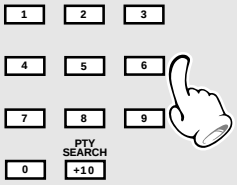
Go to step ❷ within 8 seconds.

❷ **Press the EDIT key.**

Go to step ❸ within 8 seconds.

❸ **Enter the recording length of the tape.**

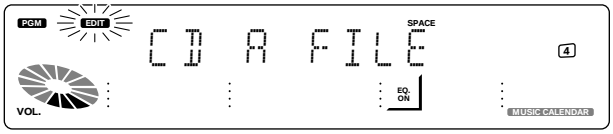




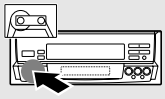
Press the numeric keys as shown below....
30-minute tape (C-30): +10 +10 +10 0
46-minute tape (C-46): +10 +10 +10 +10 6

Selection of 46, 54, 60, or 90 min tape can be done easily by pressing the TIME/ENTER key (CD) of the remote control repeatedly. After entry, press the EDIT key then proceed to step 4.

- The recording time can be set up to a maximum of 99 minutes.
- Up to 32 tracks can be edited.
- CD tracks will be edited automatically onto tape sides A and B. After editing, the **"EDIT"** indicator stops blinking and starts to light steadily.



4 Start edit recording.



Wait until the "EDIT" indicator stops blinking, and then press the CCRS key.

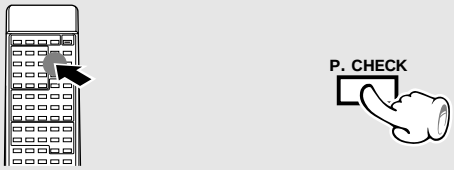
- The recording level will be adjusted automatically in approx. 60 seconds (variable depending on CD contents), after which recording starts.
- The tape and CD stop automatically when recording has completed.

Note

Depending on the combination of conditions from CD contents (number of titles and length of the titles) and tape recording time, interruption of a title may not be avoidable. In such a case, the respective title will not be recorded.

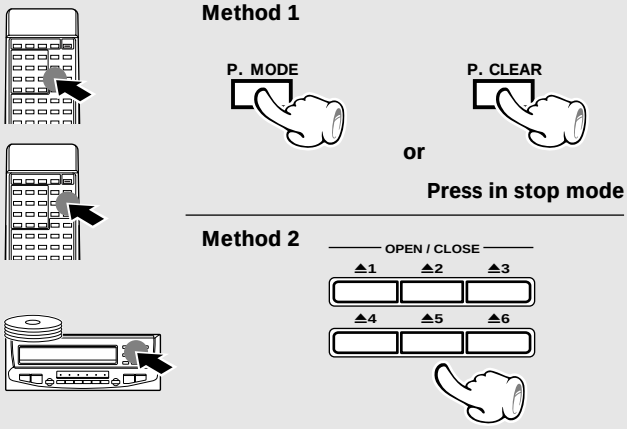
To check the edited contents

(Program edit recording, Time edit recording)

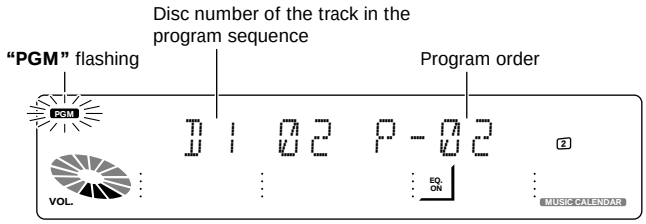


To clear the edited contents

(Program edit recording, Time edit recording)



Example of checking the edited contents for program edit recording



÷Program edit recording : Each time the key is pressed, the program No. (P-NO) and the track No. on CD are displayed.

Time edit recording : **"EDIT"** indicator blinks, and edited contents are shown in order with the music calender indicators.

÷When the **P.MODE** key is pressed at the time of program recording, all editing contents are erased. When the **P.CLEAR** key is pressed, the tracks are deleted one by one from the end of the program.

÷When the **P.MODE** key or the **P.CLEAR** key is pressed at the time of time editing, the entire editing contents are deleted.

÷At the time of program recording, all editing contents also are erased when a disc tray is opened.

÷At the time of time editing, all editing contents are erased only when the edited disc is removed.

Automatic Space Function

This is a convenient function for playback from a cassette deck (option). At the time of CD time edit recording, an unrecorded space of several seconds is produced between titles. With recording to the cassette deck in this condition, the DPSS function (search for unrecorded parts) can be used to find the beginning of a title on the tape.

÷The **"SPACE"** indicator is lit during recording.

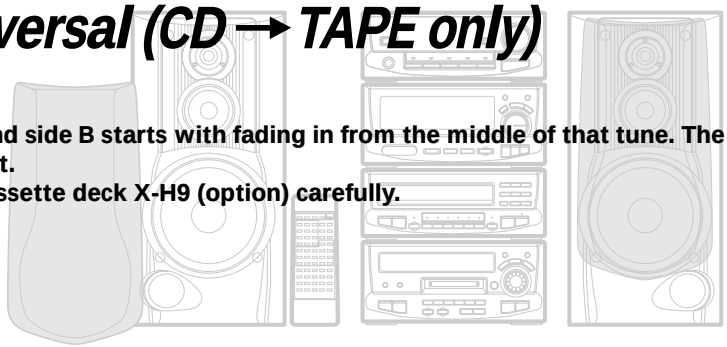
÷When play continues from the preceding title to the next title (classical music, live recordings, etc.), an unrecorded part will be created when different title numbers exist.

Fade-out/Fade-in at the tape reversal (CD → TAPE only)

(Fade edit recording)

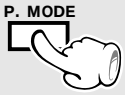
The tune interrupted at the end of tape side A is faded out and side B starts with fading in from the middle of that tune. The tune interrupted at the end of tape side B is simply faded out.
Please read "Let's record" in the operation manual of the cassette deck X-H9 (option) carefully.

When equalizer or SRS 3D is applied to the sound, the sound will be recorded with applied effect.
→ 66 → 67

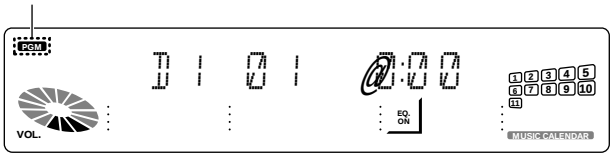


Recording preparation is required. → 46

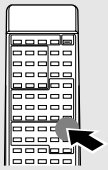
1 Make sure that the "PGM" indicator is off.



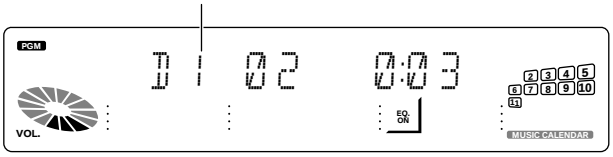
Goes off



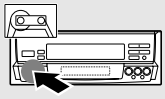
2 Select the disc.



Selected disc No.



3 Start edit recording.



÷The recording level will be adjusted automatically in approx. 60 seconds (variable depending on CD contents), after which recording starts.
÷The CD tracks are recorded in the order they are recorded on the CD.
÷Automatic stop is executed when the recording ends.

Notes

1. When the **CCRS** key is pressed during playback of CD, the playback stops and the CCRS setting (preparing edited recording) starts.
2. Edit recording is not possible with CDs containing a track that is longer than one tape side, which may occur with classical music, etc.
3. If the deck is set for one-side recording (⇄), the processing at the tape end is applied only on side A.
4. When the last tune of tape side B is faded out, the ending part of the last but one tune may sometimes be faded out if the space between it and the last tune is short.

Selecting the editing function type

When a commercially available Mini Disc fabricated for user recording is used, various editing operations can be applied after recording. Note that editing is not possible with commercially available prerecorded Mini Disc software designed for playback only.

For editing, set the write protect tab of the mini disc to "Write enable" side. →5

Function Limitations because of the MD Standard

Some of the functions are limited because of the MD standard. Please check this before assuming a malfunction. →80

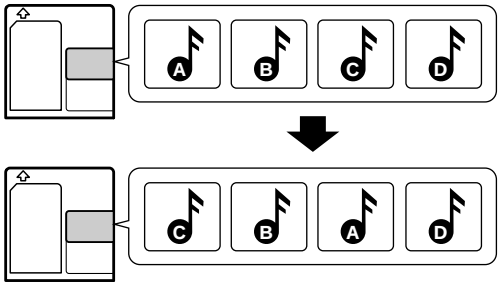
Assigning a Title to a Disc or a Track →56

Changing or deleting a title →57

Title input is possible simply by selecting one character after another from the characters shown on the display. As the entered title is compatible between models, it will be displayed also when the disc is set into a different MD recorder (player).
(The title compatibility is limited partly according to the character types which can be displayed, the number of characters, etc.)

Reordering tracks by moving them

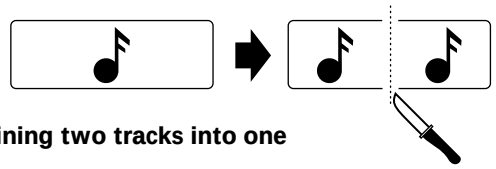
Moving several tracks at a time (QUICK MOVE) →58
Moving a single track (TRACK MOVE) →59



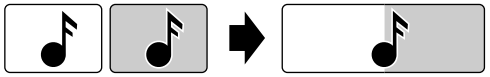
Dividing a track, combining two tracks

Dividing a track into two

TRACK DIVIDE →60



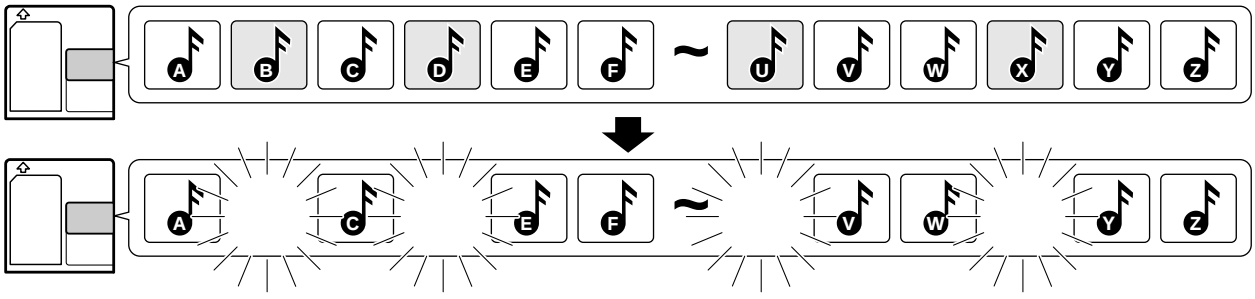
Combining two tracks into one



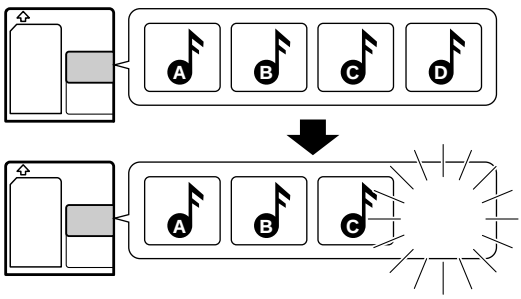
TRACK COMBINE →64

Erasing track(s)

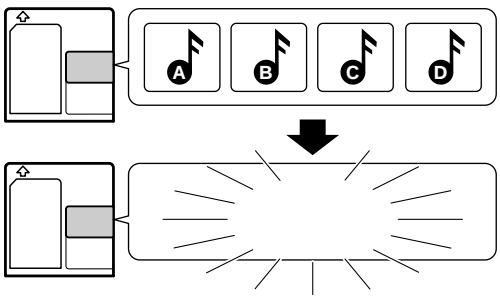
Erasing several tracks at a time (QUICK ERASE) →63



Erasing a single track (TRACK ERASE) →64



Erasing all tracks on a disc (ALL ERASE) →64

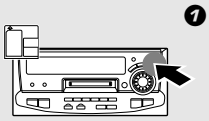


Assigning a title to a disc or track

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

Execute operation in stopped condition or during playback.

1 Activate the title input mode.



❶ Press the TITLE INPUT key.

❷ Select whether the disc title or track title input.

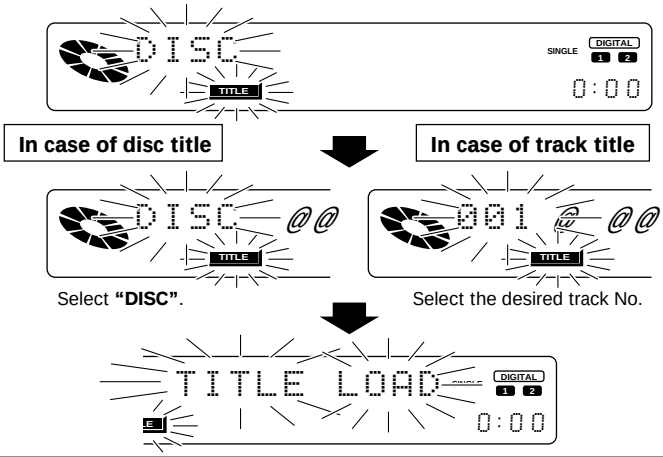
To return **To advance**

❸ Set the selection.

To abort operation, press the TITLE INPUT key again.

When the ► (playback) key is pressed before step ❸ while assigning a title to a track, the title can be entered while listening to that track. However, listening is not possible when assigning a disc title.

÷It takes a while because data should be read out of the disc.



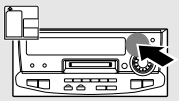
2 Input the title.

❶ Select the group of the characters used in the title.

❷ Select a desired character by placing the selection cursor on it.

To return **To advance**

❸ Set the selected character.



Input the title characters by repeating ❶ to ❸ for each of them.

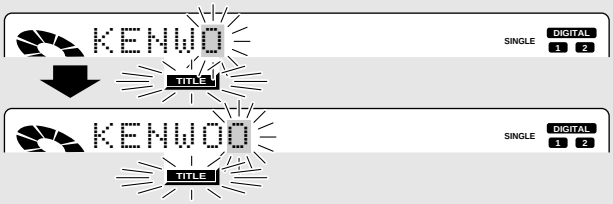
Each press of the CHARACTER (TRACK EDIT/ CHARA.) key switches the group.

- ① **A~Z, space (blank space corresponding to one character) , comma, period, etc.**
- ② **a~z, space**
- ③ **0~9, symbols, space**

÷When the jog dial is turned, the display scrolls and all characters (in the same group) can be selected.

÷Pressing the **DISPLAY MODE** key allows to change the display characters on a per-screen (5 characters) basis.

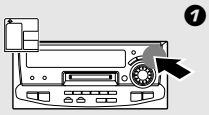
Example of disc title



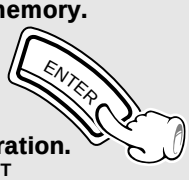
The cursor moves and waits for input of the next character.

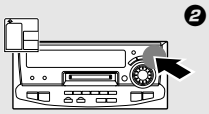
÷The input cursor can be moved with the ◄◄, ►► **(L CURSOR R)** keys.

3 Execute title assignment.

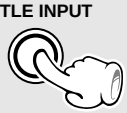


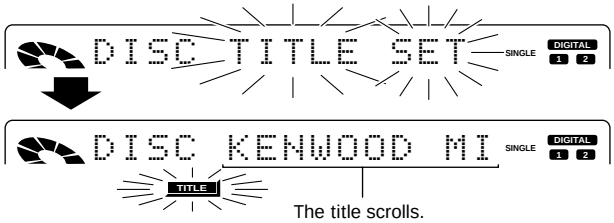
❶ Enter the title in memory.





❷ Complete the operation.





The title scrolls.

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Changing or deleting a title

Total number of title characters

Up to 1792 characters can be input per disc and up to 80 characters can be input per track.
A space (blank character) also require the same amount of data as alphanumeric characters. When deleting a title, it is not recommended to overwrite spaces on previous characters but use the CHARACTER DELETE function.

Always remove the minidisc after title input or editing. The names in brackets in the explanations are the names of the remote control keys.

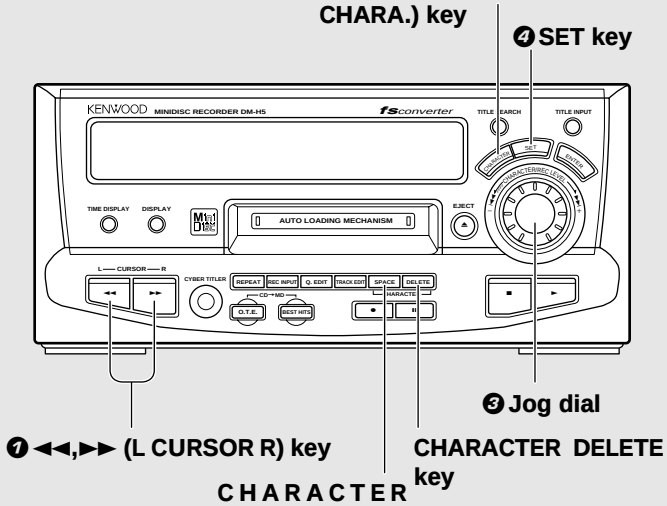
1 Perform step ❶ of "Assigning a title to a disc or track".

→56

2 Change or delete characters one by one.

❶ Move the cursor to the desired character (the character to be changed).

❷ Select the character group.



❸ Select the correct character.

❹ Confirm the character.

All characters of a title can be changed by repeating steps ❶ to ❹.

Title input section

In regard to the key functions

CHARACTER (TRACK EDIT/CHARA.) key :
The group of characters displayed at the character selection section is switched.

CHARACTER DELETE key :
The character at the cursor is deleted (erased) and the following characters move up by one character each. Titles can be erased easily by continuous pressing (or by holding the key down for repeated input).

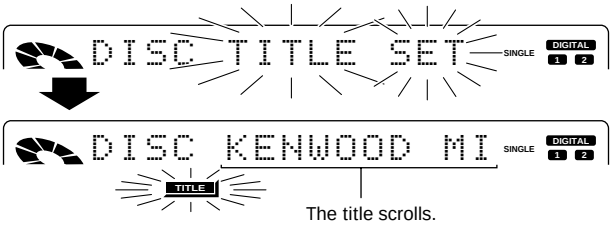
CHARACTER SPACE key :
A space (blank corresponding to one character) is entered (inserted) directly before the character at the cursor position, and the following characters all are moved back by one character. Continuous pressing (or repeated input by keeping the key pressed) is also possible. This is used mainly to provide space for adding characters to a title.

÷ If the title to be changed is too long to be displayed on the display section, press the ◄◄, ►► **(L CURSOR R)** key to scroll the display so that the characters hidden until then appear.
÷ When the jog dial is turned, the display scrolls and all characters (in the same group) can be selected.

3 Execute title change or deletion.

❶ Enter the title in memory.

❷ Complete the operation.



Moving several tracks at a time *(QUICK MOVE)*

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

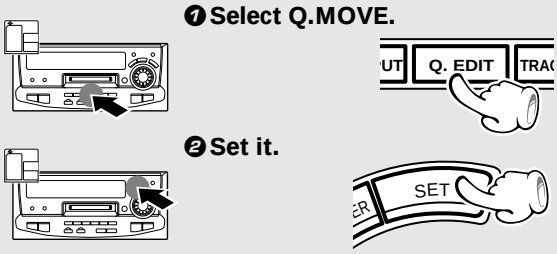
40 continuous tracks within the specified range can be reordered at a time.

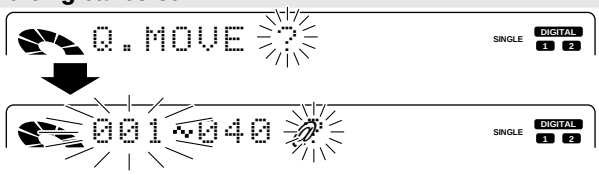
Please execute operation in stopped condition.

1 Select Q.MOVE.

To cancel, press the Q.EDIT key twice.

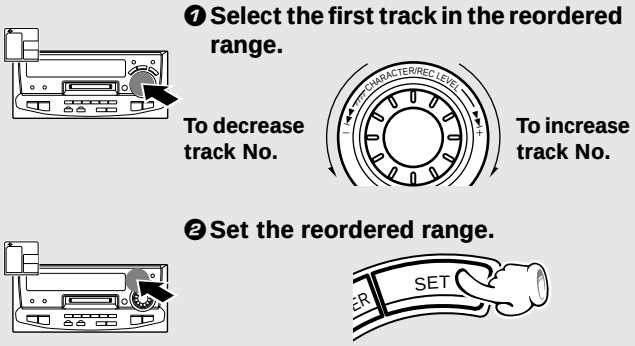
Switching is done each time the Q.EDIT key is pressed.
① Q.MOVE ? (Moving several tracks at a time)
② Q.ERASE ? (Erasing several tracks at a time)
③ Editing canceled

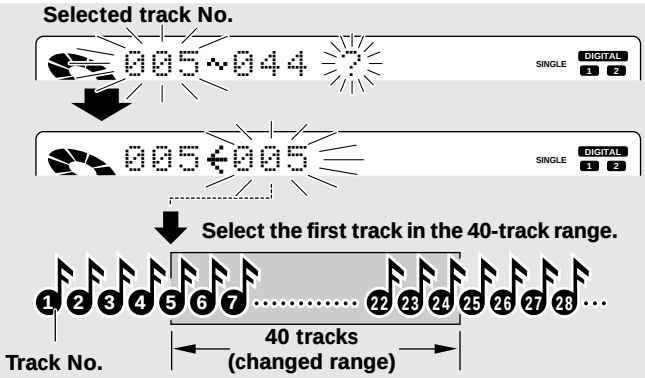




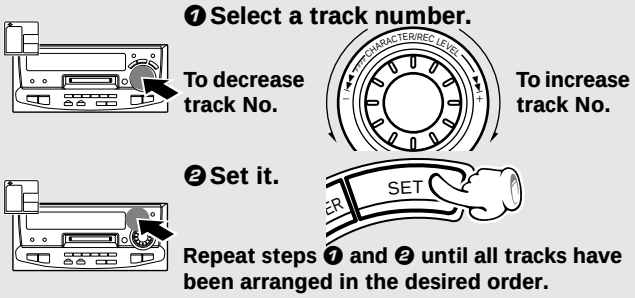
÷Editing is ended when no action is taken for 8 seconds.

2 Select the range of tracks to be reordered.

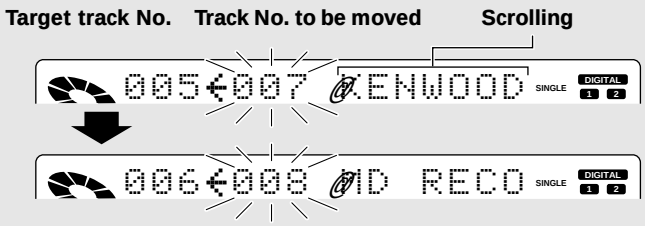




3 Select tracks numbers in the desired order.

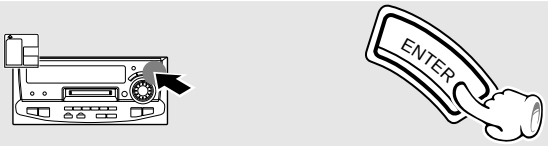


Moving the present track No. 7 to track No. 5

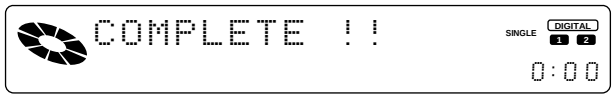


÷Use the **Q.MOVE CHECK** key and the **Q.MOVE CLEAR** key of the remote control to confirm the selected title sequence and to delete selected titles. For details, refer to **"Confirmation or deletion of selected titles"**. → 63

4 Execute the track move operation.



Press the key again after "Q.MOVE ok?" has been displayed.



5 After editing, eject and remove the mini disc.

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

÷It takes a while until the execution completes.
÷If the **ENTER** key is pressed before reordering all tracks, the tracks which have not been selected are added to the end of the reordered range in the same order as before.
÷You can suspend track reordering by pressing the **EJECT** key (⏏) or the **ON/STANDBY** key while **"COMPLETE"** is flashing.

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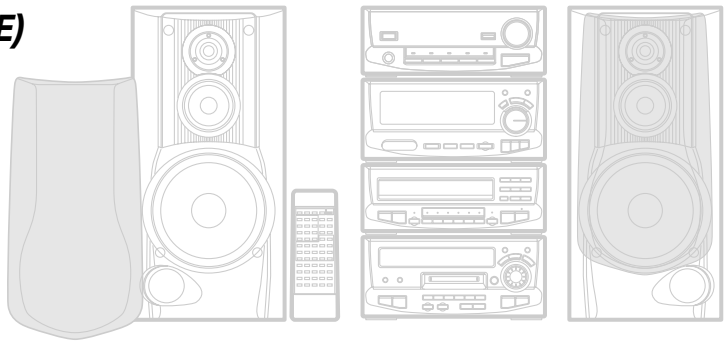
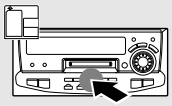
Moving a single track *(TRACK MOVE)*

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



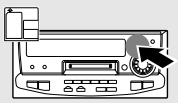
Please execute operation in stopped condition.

1 *Select "MOVE".*

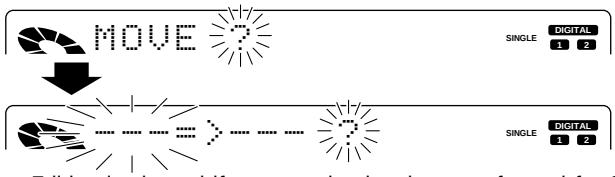


❶ **Select "MOVE".**

❷ **Set it.**



Each press switches the operation.
- ① **ALL ERASE ?** **(Erasing of all tracks)**
- ② **MOVE ?** **(Moving a single track)**
- ③ **COMBINE ?** **(Combining tracks)**
- ④ **Editing cancelled**

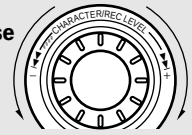


÷Editing is aborted if no operation has been performed for 8 seconds.

2 *Select the track to be moved.*

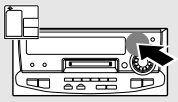
❶ **Select a track number.**

To decrease track No.

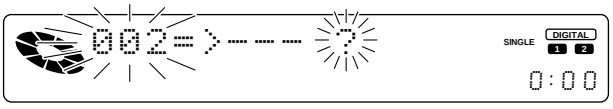


To increase track No.

❷ **Set it.**

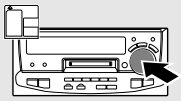


Track to be moved

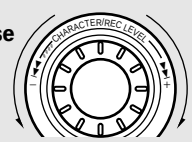


3 *Select the moving destination track.*

❶ **Select a track number.**

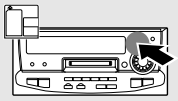


To decrease track No.

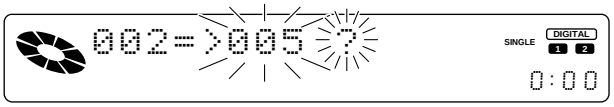


To increase track No.

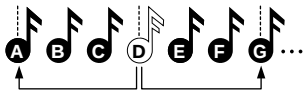
❷ **Set it.**



Destination track No.



Selected destination | Track to be moved | Selected destination



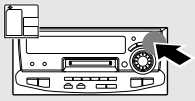
When moved to a position after current position

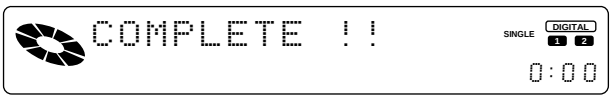
Inserted immediately after destination track

When moved to a position before current position

Inserted immediately before destination track

4 *Execute the track move operation.*



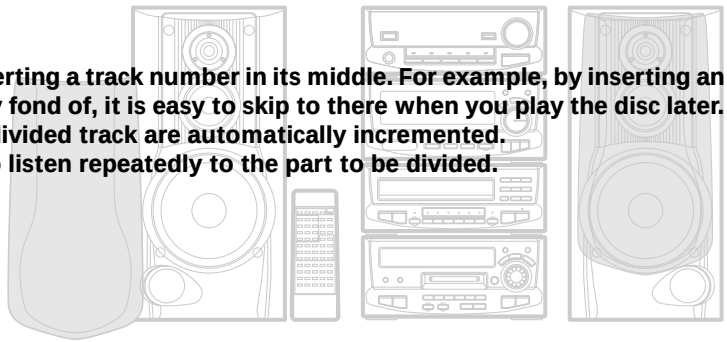


5 *After editing, eject and remove the mini disc.*

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

Dividing a track *(TRACK DIVIDE)*

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

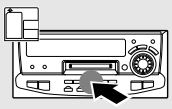


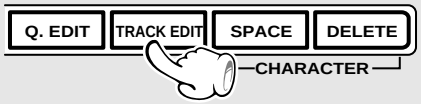
1 *Play the track to be divided.*

÷This operation is also possible during play-pause.

2 *Press the TRACK EDIT key at the desired position.*

❶ Select "DIVIDE".



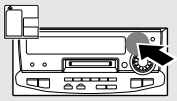


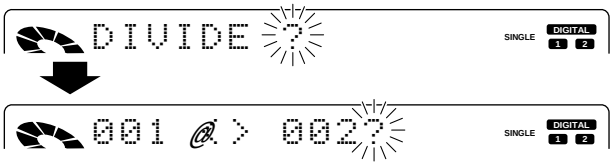
Each press switches the operation.

- ① **ERASE ?** **(Erasing one track)**
- ② **DIVIDE ?** **(Dividing a track)**
- ③ **COMBINE ?** **(Combining tracks)**
- ④ **Editing cancelled**

During playback, playback pause will be reached.

❷ Set it.





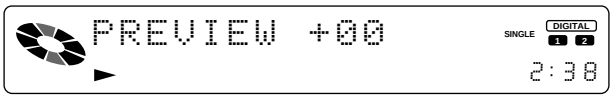
÷Editing is aborted if no operation has been performed for 8 seconds.

When you don't want to execute fine adjustment of the division point , press the ENTER key after step ❷, and then go to step ❹. (DIVIDE ok? will be displayed.)

3 *Execute fine adjustment for the division location.* *(Preview function)*

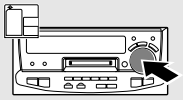
❶ Execute preview playback.

The approximately four seconds after the pause location will be played repeatedly.



❷ Execute fine adjustment for the division location.

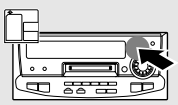
The step number decreases **The step number increases**

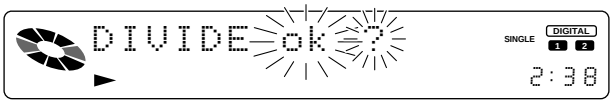


÷Fine adjustment can be made while listening to the sound.
÷The possible adjustment range is 64 steps back from the pause location where the **TRACK EDIT** key has been pressed in step ❷. (1 step is approximately 6/100 sec.)

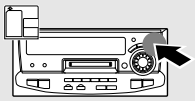
Repeated playback will be executed from the start of the adjusted location to the end of the part played back in step ❶.

❸ Set it.

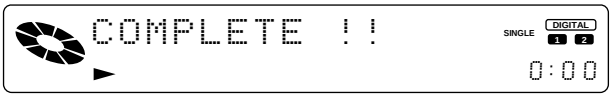




4 Execute the track divide operation.



Up to 255 track numbers can be inserted additionally by repeating 1 to 4 for each of them.



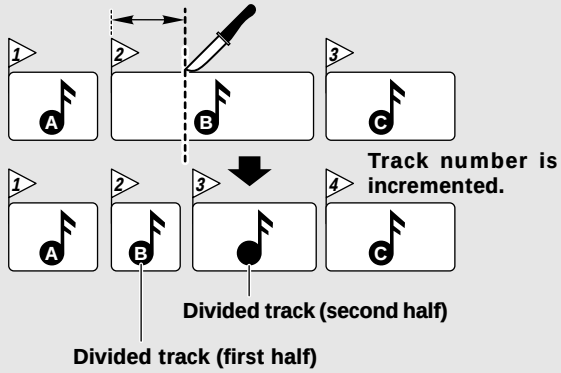
÷The track is divided into two tracks.
÷Playback starts from the track made from the second half of the divided track.
÷There is no blank space left between the two tracks.

5 After editing, eject and remove the mini disc.

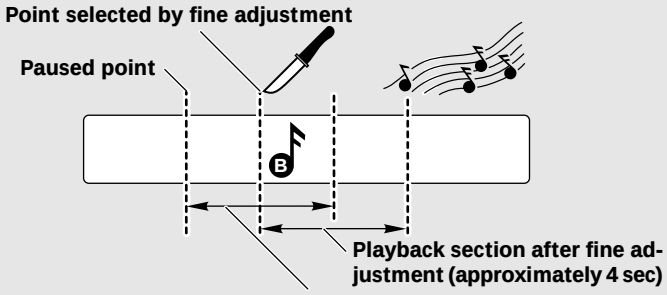
"DISC WRITING" displayed during the mini disc ejection operation indicates that the data associated with recording or editing is being written on the disc. Do not apply vibration or shock to the unit while this message is displayed.

Title division image

Should be approx. 2 sec. or longer.

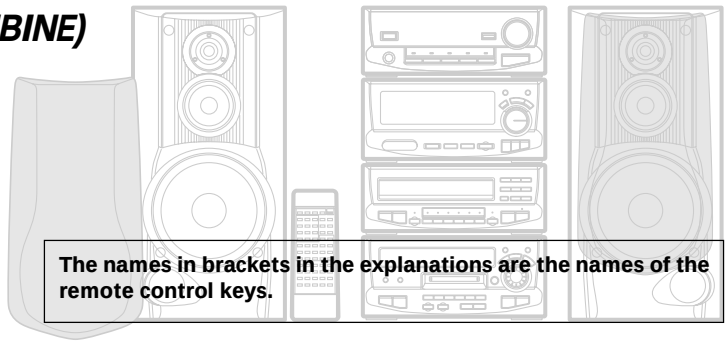


Preview playback image



Combining two tracks *(TRACK COMBINE)*

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



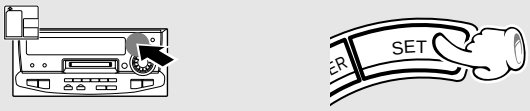
The names in brackets in the explanations are the names of the remote control keys.

1 Select "COMBINE".

COMBINE can not be selected during playback of the last title of an MD.

❶Select "COMBINE".

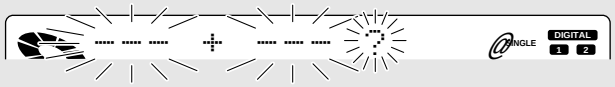
❷Set it.



If you combine tracks during playback, go to step 3.

Each press switches the operation.
When pressed in stop mode:

- ① **ALL ERASE ?** **(Erasing of all tracks)**
- ② **MOVE ?** **(Moving a single track)**
- ③ **COMBINE ?** **(Combining tracks)**
- ④ **Editing cancelled**

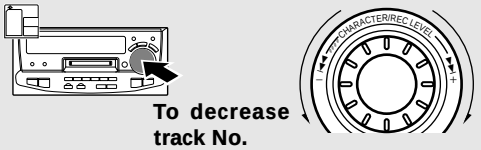


When pressed in play mode:

- ① **ERASE ?** **(Erasing one track)**
- ② **DIVIDE ?** **(Dividing a track)**
- ③ **COMBINE ?** **(Combining tracks)**
- ④ **Editing cancelled**

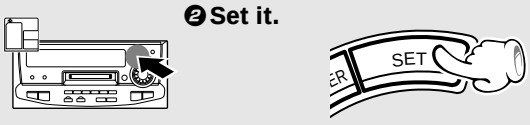
2 Select the track to be combined.

❶Select the track number.



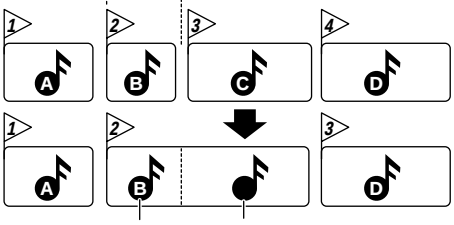
To decrease track No. **To increase track No.**

❷Set it.



÷When two titles are to be combined during playback, press the **TRACK EDIT (TRACK EDIT/CHARA.)** key while the first of the two titles to be combined is being played. (The title being played will be combined with the immediately following title.)
÷If the operation is started during playback, it pauses automatically.
÷Editing is aborted if no operation has been performed for 8 seconds.

Should be approx. 2 sec. or longer.

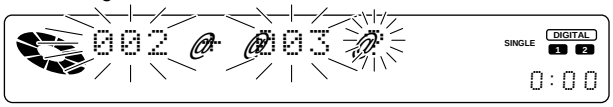


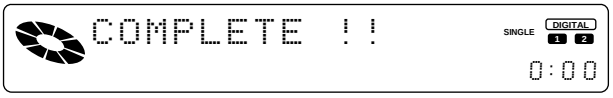
Track No. is adjusted.

Track No. and title of the first track are left.

Track No. and title of the second track are cleared.

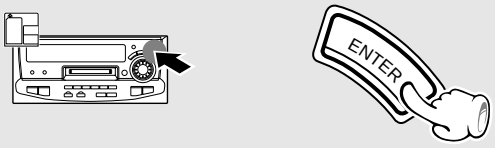
Connecting tracks 2 and 3.





÷If editing has been started during playback, playback restarts automatically from the current track.

3 Execute the track combine operation.



4 After editing, eject and remove the mini disc.

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

XD-9580MD (En)

Erasing several tracks at a time *(QUICK ERASE)*

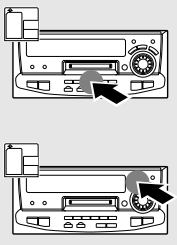
Titles (track numbers) can be selected to be erased together.

40 tracks can be erased at a time.

Please execute operation in stopped condition.

1 Select Q.ERASE.

To abort the operation, press the Q.EDIT key again.

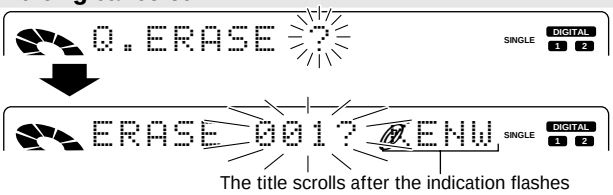


❶ Select Q.ERASE.

❷ Set it.

Switching is executed each time the Q.EDIT key is pressed.

- ① **Q.MOVE ? (Moving several tracks at a time)**
- ② **Q.ERASE ? (Erasing several tracks at a time)**
- ③ **Editing canceled**



÷Editing is ended when no action is taken for 8 seconds.

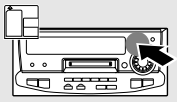
2 Select the titles to be erased.

❶ Select the title (track number).

To decrease track No.

To increase track No.

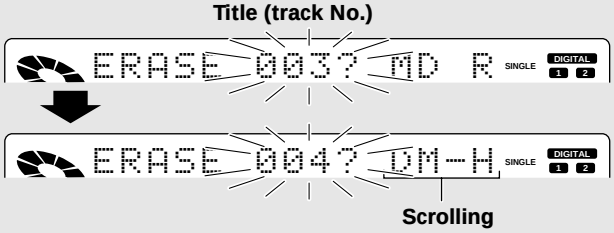
❷ Set it.



Repeat the steps ❶ and ❷ to select the titles to be erased.

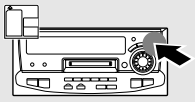
When the title of track No. 3 has been selected.

Title (track No.)



After confirmation, the next track number is shown.

3 Execute the erase operation.



Press the key again after "Q.MOVE ok?" has been displayed.

÷For confirmation of the selected titles and for clearing of selected titles, please refer to the following **"Confirmation or cancellation of selected titles"**.

÷Some time is required until completion of the processing.

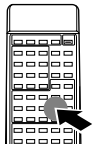
÷When the **ENTER** key is pressed during erase operation, the not selected titles will be moved in their present order to the end of the range being erased.

÷When the **EJECT** key (⏏) or the **ON/STANDBY** key is pressed while the **"COMPLETE"** indication flashes, the erase operation may be stopped before completion.

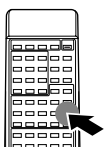
4 After editing, eject and remove the mini disc.

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

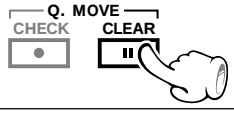
Confirmation or cancellation of selected titles

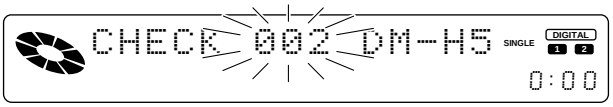


❶ Press the Q.MOVE CHECK key for confirmation.

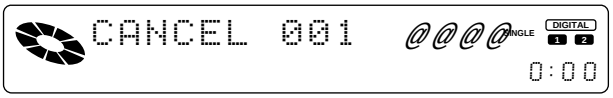


❷ Press the Q.MOVE CLEAR key during display of the title to be canceled for cancellation.





÷Each time the key is pressed, the title with the next higher selected track No. will be displayed.



÷The selected titles will be erased only when the **Q.MOVE CHECK** key is pressed and then the **Q.MOVE CLEAR** key is pressed.

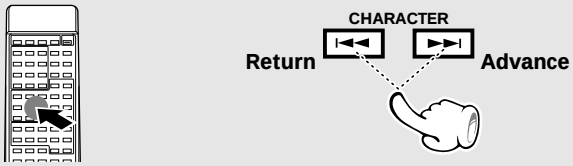
Erasing a single track (TRACK ERASE) or erasing all tracks on a disc (ALL ERASE)

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

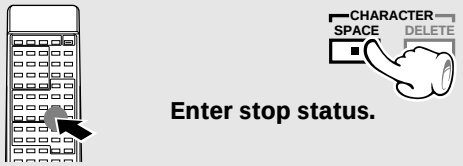
ALL ERASE
During stop, all tracks can be erased. Be careful in using this operation because the tracks cannot be recovered once the entire minidisc has been erased.

1 Make the preparations.

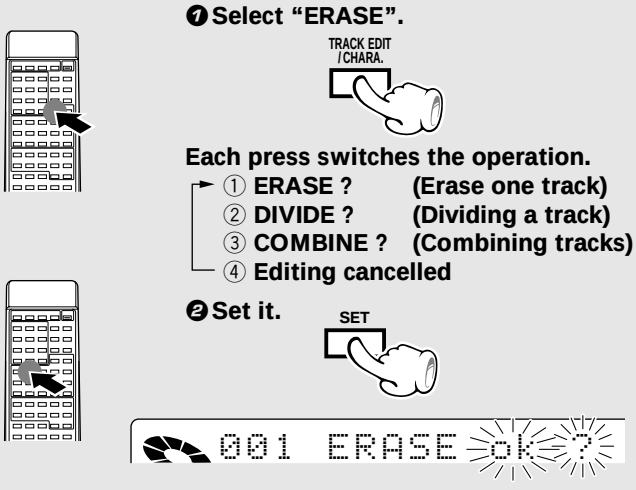
To erase one track (TRACK ERASE)

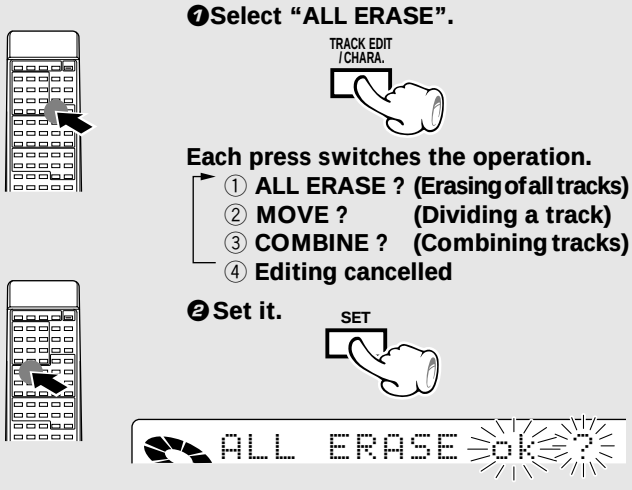


To erase all tracks (ALL ERASE)



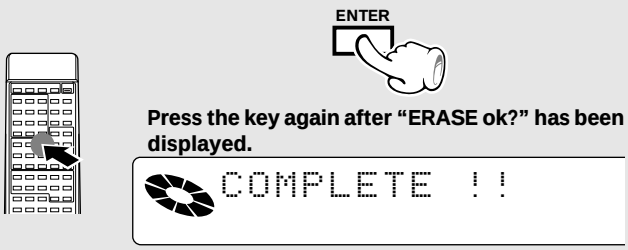
2 Select the ERASE mode.



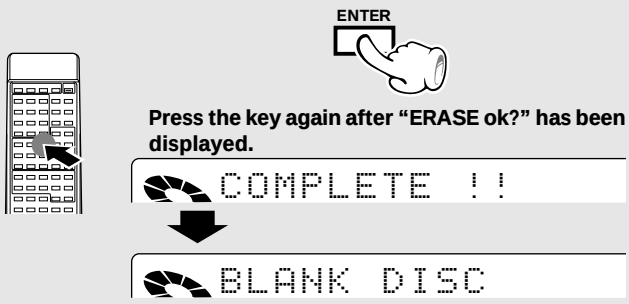


÷Editing is aborted if no operation has been performed for 8 seconds.

3 Execute the erase operation.



÷The track is erased (together with the track title).
÷If editing has been started during playback, playback restarts automatically from the track after the erased track.



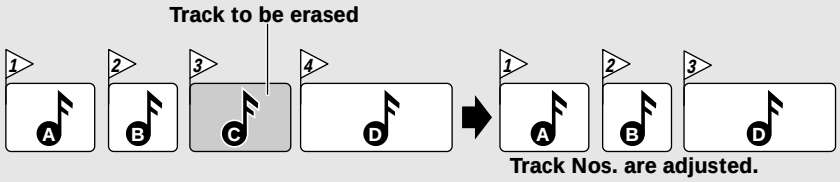
÷All tracks on a disc are erased (together with the disc title).

Application section

4 After editing, eject and remove the mini disc.

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

Image of erasing one track (TRACK ERASE)



Erasing a part of a track

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

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

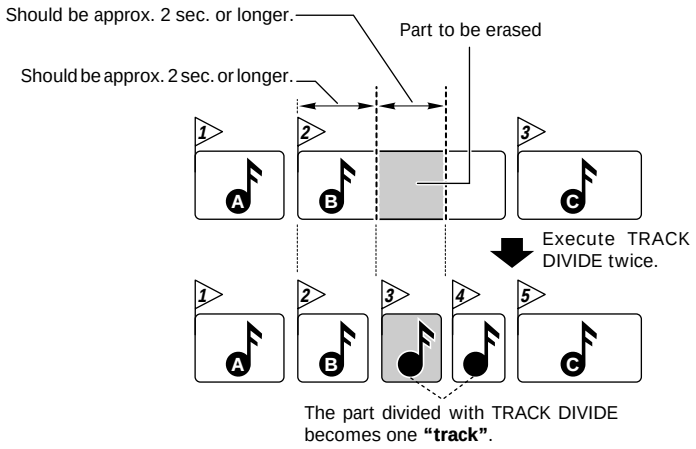
❶Turn the part to be erased into one track.

Use the TRACK DIVIDE function to turn the part you want to erase into one track.

❷Erase the part to be erased.

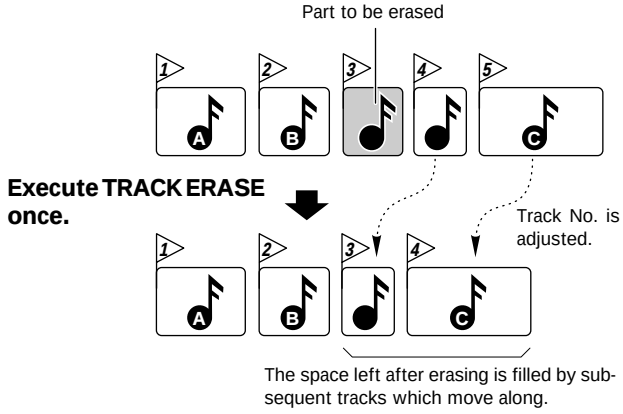
Use the TRACK ERASE function to erase the "track" (part you want to erase) made in step ❶.

❸After editing, eject and remove the mini disc.



TRACK DIVIDE → 60

÷If it is required to erase only the first or second half of a track, only one TRACK DIVIDE operation is enough.



TRACK ERASE → 64

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

Effective sound field and sound quality adjustment

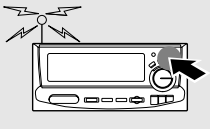
This unit permits selection of equalizer and sound field playback. Please select the equalizer as desired according to the music genre. Select the sound field mode according to the desired atmosphere.

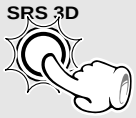
Enjoying sound field effects

Experiencing SRS 3D stereo *(Sound Retrieval System)*

The Sound Retrieval System is an epochal system which produces a three-dimensional sound space by applying the most suitable processing to the sound signal on the basis of the human listening mechanism. This permits real depth and sound location, considered as difficult to realize with conventional 2-channel stereo (general stereo). A sufficient effect can be obtained for any source (CD, MD, broadcasts, etc.). Recording with applied SRS 3D stereo also is possible.

❶ Switch on SRS 3D.

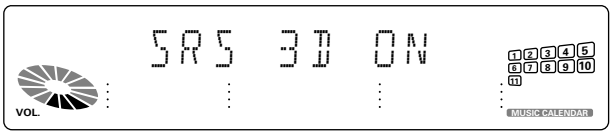




Lights

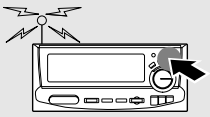
ON/OFF is switched each time the key is pressed.

The characters will scroll to the left.



❷ Adjust the effect strength (level).

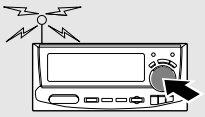
(1) "LEVEL" will be displayed.

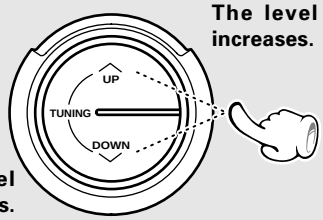


Each press switches the modes as follows.

- **① Strength of the SRS 3D stereo effect (LEVEL)**
- **② Spectrum analyzer display switching (DISPLAY)**
- **③ Left and right volume balance**

(2) Adjust the strength of the effect.

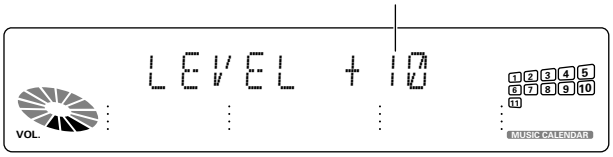




The level increases.

The level decreases.

Level display



- Adjustment is possible in the range from -10 to +10.
- Please set as desired according to the titles being played back etc.
- SRS 3D stereo ON/OFF switching is not possible during recording.

When equalizer or SRS 3D is applied to the sound, the sound will be recorded with applied effect in the case of analog recording. (Analog recording only. Recording and playback of the sound with sound effect are impossible with a component connected to the TAPE jacks). → 28

XD-9580MD (En)

Listening with the desired sound (equalizer function)

In addition to the five types of equalizer patterns, you can establish and store your own equalizer patterns and can call it when desired.

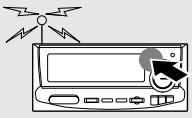
Set the equalizer to OFF to listen to tapes or discs (only recordings with analog input) recorded with equalizer ON.

Equalizer (frequency band) adjustment

The setting items for each frequency band are displayed only when the equalizer is set to MANUAL (user memory).

Selection of the equalizer pattern

The equalizer patterns can be selected according to the genre of music played. Recording with applied equalizer effect also is possible.

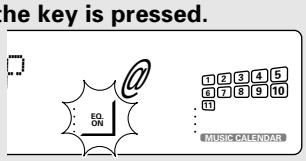


❶ Play the desired music.

❷ Select the genre for listening.

The pattern is switched each time the key is pressed.

- **① ROCK ..... (Rock)**
- **② POP ..... (Popular)**
- **③ DISCO ..... (Disco)**
- **④ JAZZ ..... (Jazz)**
- **⑤ CLASSIC ..... (Classic)**
- **⑥ MANUAL ..... An equalizer pattern can be created and memorized.**
- **⑦ EQ. OFF ..... (EQ.ON not lit ... Equalizer function canceled)**

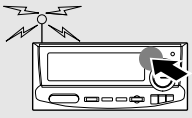


Lights

Creation and memorizing of an equalizer pattern

A desired equalizer pattern can be created and memorized.

When equalizer or SRS 3D is applied to the sound, the sound will be recorded with applied effect in the case of analog recording. (Analog recording only. Recording and playback of the sound with sound effect are impossible with a component connected to the TAPE jacks). ➞ 28

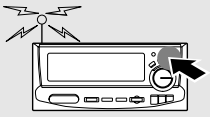


❶ Display "MANUAL" (Confirm.).

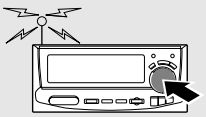
Continue to step ❷ within 4 seconds.

❷ Adjust the equalizer pattern.

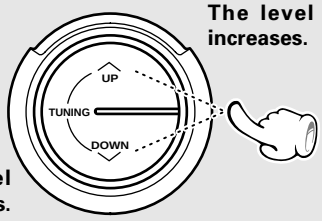
(1) Select the frequency band.



(2) Adjust the level.



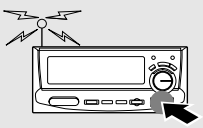
The level increases.



The level decreases.

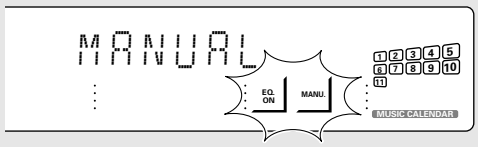
(3) Repeat the steps (1) and (2) and adjust the individual items.

❸ Memorize the setting.



The pattern is switched each time the key is pressed.

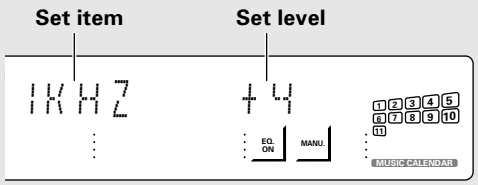
- **① ROCK**
- **② POP**
- **③ DISCO**
- **④ JAZZ**
- **⑤ CLASSIC**
- **⑥ MANUAL**
- **⑦ EQ. OFF**



Lights

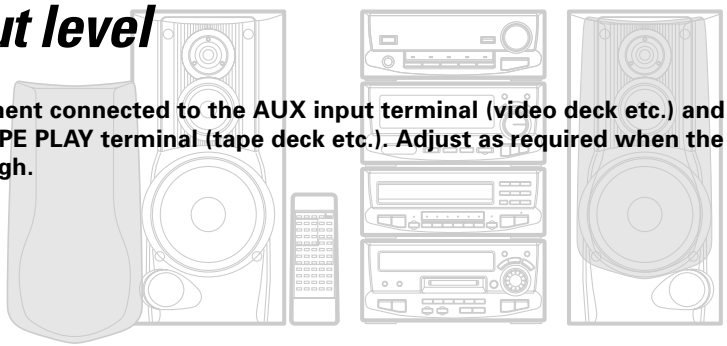
The pattern is switched each time the key is pressed.

- **① 68 Hz**
- **② 130 Hz**
- **③ 400 Hz**
- **④ 1 kHz**
- **⑤ 2 kHz**
- **⑥ 6.3 kHz**
- **⑦ 16 kHz**



- Adjustment is possible in the range from +4 to -4.
- When the input has been switched during setting, please repeat from step ❶ on.

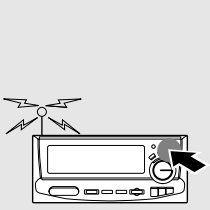
Adjustment of balance and input level



Balance ..... Adjusts the balance of left and right volume.
Input level ..... This adjusts the volume from external equipment connected to the AUX input terminal (video deck etc.) and from external equipment connected to the TAPE PLAY terminal (tape deck etc.). Adjust as required when the volume from the external equipment is too high.

Balance adjustment

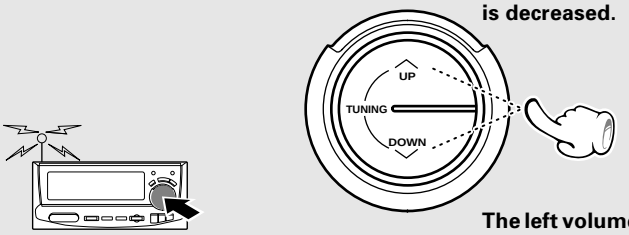
❶ Select balance adjustment.



Return to volume adjustment is made when no input is made for 4 sec. or more.

❷ Adjust.

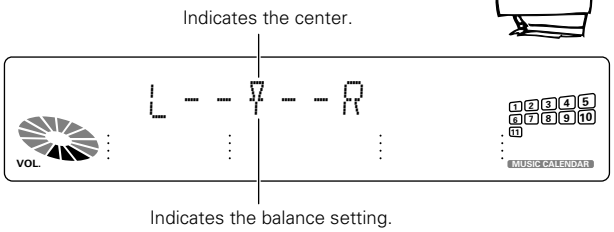
The right volume is decreased.



The left volume is decreased.

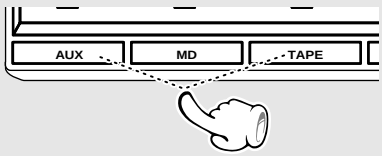
Each press switches the modes as follows.
① Strength of the SRS 3D stereo effect (LEVEL)
② Spectrum analyzer display switching (DISPLAY)
③ Left and right volume balance

● **"LEVEL"** is displayed only when SRS 3D is ON.



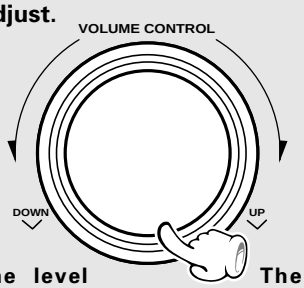
Input level adjustment

❶ Select TAPE adjustment or AUX adjustment.



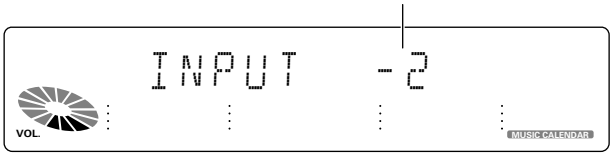
Press either one twice and go to step ❷ within 4 seconds.

❷ Adjust.



The level decreases. **The level increases.**

Set level

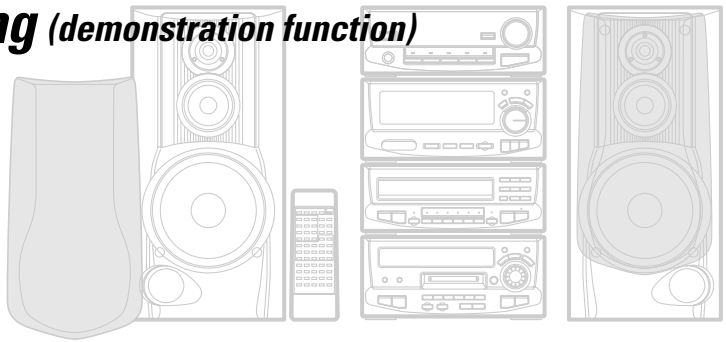


● Adjustment is possible over the range from -5 to 0.

When the input level is adjusted, the recording level from the external equipment connected to the AUX input terminal or the TAPE PLAY terminal also changes.
"Recording on MD" → 28

XD-9580MD (En)

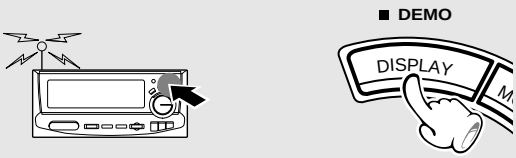
Multi-function display switching *(demonstration function)*



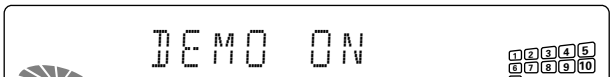
Demonstration display

The effects of equalizer, SRS 3D, EX. BASS, N.B. CIRCUIT, etc. are demonstrated one after another.

Display "DEMO ON".



Press for at least 2 seconds.

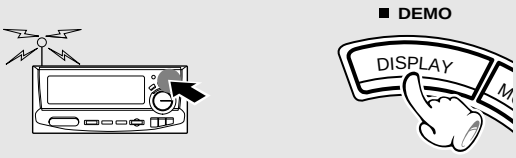


- To end the demonstration, press the same key again. The message **"DEMO OFF"** will be scrolled and the demonstration will be canceled.
- When the unit is switched off (STANDBY) while demonstration is ON, the demonstration will continue. To end the demonstration, press the **DEMO** key again.
- When there is no MD in the MD recorder while demonstration is ON, demonstration will be executed also on the display of the MD recorder.

Display switching

The display of this unit shows two types of display contents in three-dimensional superposition. Display of one type at a time also can be selected.

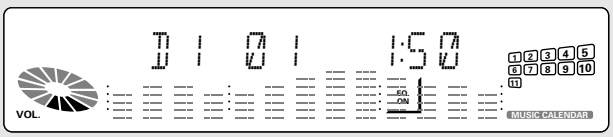
Switching the superposed display



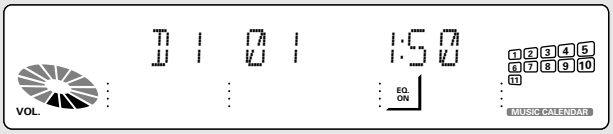
Each press switches the modes as follows.

① Superposed display
② Character display
③ Spectrum analyzer display

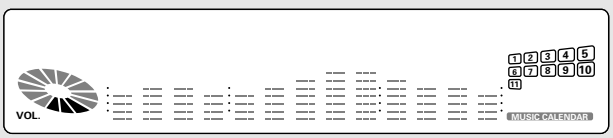
① Superposed display



② Character display



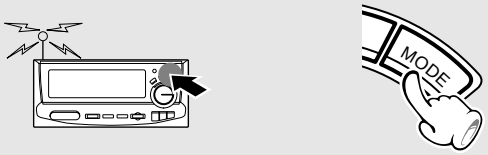
③ Spectrum analyzer display



Switching the spectrum analyzer display

❶ Select DISPLAY.

Go to step ❷ within 4 seconds.



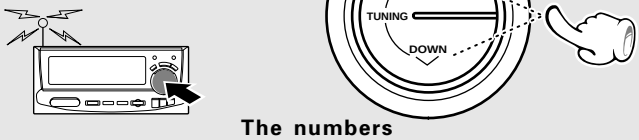
Each press switches the modes as follows.

① Strength of the SRS 3D stereo effect (LEVEL)
② Spectrum analyzer display switching (DISPLAY)
③ Left and right volume balance

- **"LEVEL"** is displayed only when SRS 3D is ON.

❷ Select the desired spectrum analyzer display.

The numbers increase.



The numbers decrease.

- Selection is possible from 7 types. (**DISPLAY1~DISPLAY7**)

Clock adjustment

Adjust the clock before setting the timer.

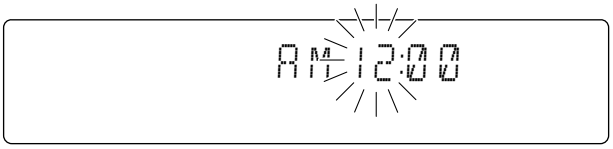
XD-9580MD (En)

When the AC cord is connected to a receptacle, the clock display starts to flash. Set the correct time following the instructions.

Ensure that the unit is OFF (STANDBY).

1 *Activate the clock adjustment mode.*

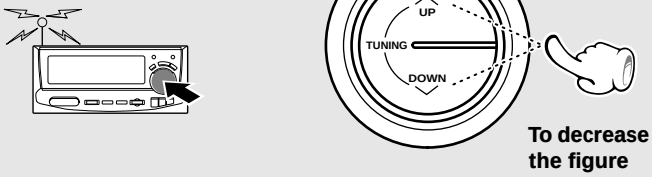
Example: Adjustment to 8:45



÷The time display starts to blink.

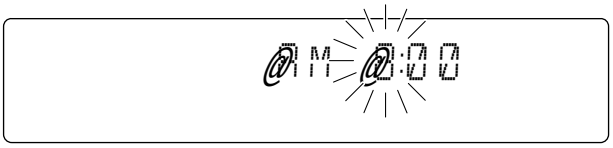
2 *Enter the figure of hour.*

❶



To increase the figure

To decrease the figure

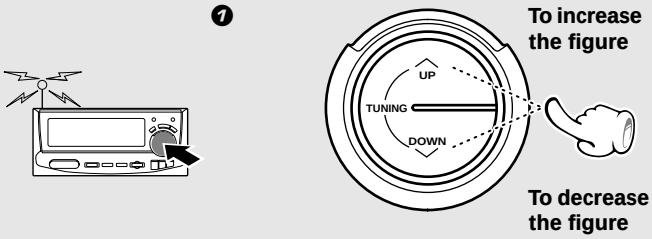


❷

÷The time of the day is represented in 12-hour AM/PM method.
÷Press the **ENTER** key. The hour is entered and the minute display starts to blink.

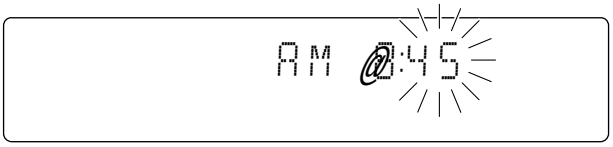
3 *Enter the figure of minute.*

❶



To increase the figure

To decrease the figure



❷

÷If you make a mistake, restart from the beginning.
÷To adjust correct time, press the **ENTER** key at the same moment as a time announcement.
÷The time display flashes when a power failure has occurred or when the power plug has been pulled and inserted again. In such a case, set the clock again.

Timer operation

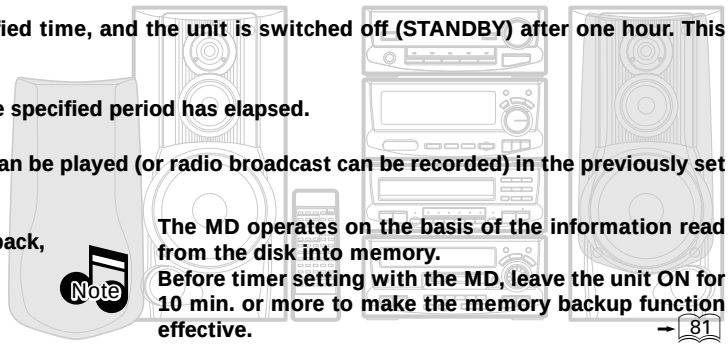
Adjust the clock before setting the timer.

Operate easy To use Timer (O.T.T.)
Playback of the selected input source starts at the specified time, and the unit is switched off (STANDBY) after one hour. This timer operates only once directly after setting.

Sleep timer (SLEEP)
The unit is turned OFF (STANDBY) automatically after the specified period has elapsed.

Timer playback, timer recording (PROG.1, PROG.2)
With each of the two timer programs, a selected source can be played (or radio broadcast can be recorded) in the previously set time period.

AI timer playback (PROG.1, PROG.2)
The volume increases gradually after start of timer playback, and it stops at the volume preset in the factory.

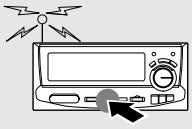


Note

The MD operates on the basis of the information read from the disk into memory.
Before timer setting with the MD, leave the unit ON for 10 min. or more to make the memory backup function effective.
→ 81

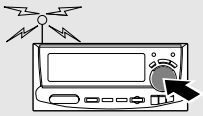
Operate easy To use Timer (O.T.T.)

Timer playback is possible simply by setting the time.
The source selected last before the unit was switched off (STANDBY) will be played. One hour after start of timer playback, the unit will be switched off (STANDBY) automatically.

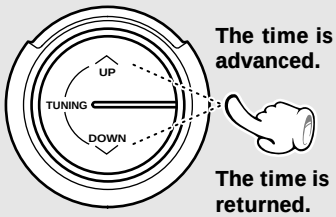


❶ Select the source to be played.

❷ Press the O.T.T. key.

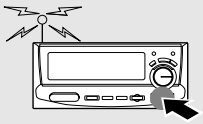


❸ Set the ON time.



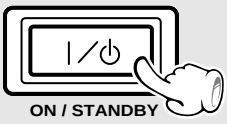
The time is advanced.

The time is returned.



❹ Press the ENTER key.

❺ Switch OFF (STANDBY) the unit supply.

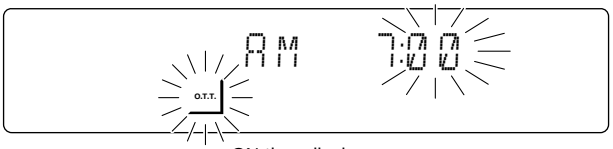


ON / STANDBY

The program timer does not operate until the end of operation of the O.T.T. timer.

÷Timer playback for a CD is possible only when the CD is set into the tray No. 1.
÷When the **O.T.T.** key is pressed, the input source and the ON time are displayed.

Each press switches the modes as follows.
① "O.T.T." lit..... The timer is used.
② "O.T.T." not lit.... The timer is not used.



ON time display

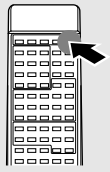
÷The ON time can be set in steps of 5 minutes.
÷In case of combination with another timer, the input source which has operated last will be played back.
÷O.T.T. timer setting is possible even when the unit is OFF (STANDBY).

To cancel

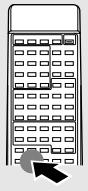
Press the O.T.T. key twice.

Sleep timer

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



❶ Turn the unit ON.

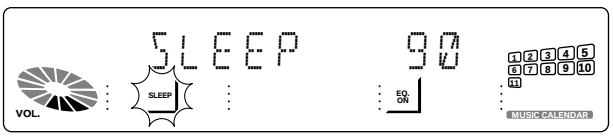


❷ Set the time.

÷The unit is turned OFF (STANDBY) automatically after the set time has elapsed.
÷Each press decreases the time by 10 minutes. The maximum time that can be set is 90 minutes.

90→80→70...30→20→10→Cancel→90→80...

Duration for sleep timer



Lights

To cancel

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

Timer programming

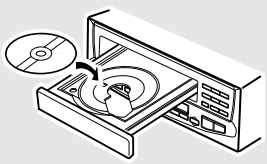
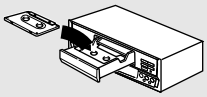
Two 24-hour timer systems (PROG.1, PROG.2) (which can be used every day) are available.
In each of PROG.1 and PROG.2, the timer data including the operating period and played contents can be set and selected to be activated or not as required.
For tape timer operation, please read the operation manual of the cassette deck X-H9 (option) carefully.

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

The MD operates on the basis of the information read from the disk into memory.
Before timer setting with the MD, leave the unit ON for 10 min. or more to make the memory backup function effective. →81

Connect the related equipment under reference to "System connection". →6

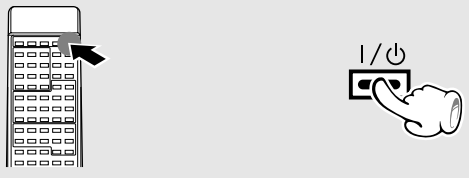
1 *Make preparations for the play (recording).*

To listen to radio	To listen to CD	Playing the auxiliary input source	To listen to MD	To listen to tape	For recording
The station should be preset prior to the above. →27	**Insert a disc. (Program playback is not possible.)**  **Timer playback is not possible when the CD is not set in tray No. 1.**	**Make timer setting of the component connected to the AUX or TAPE jacks.**	**Load a disc.**	**Set a tape into. Cassette deck X-H9 (option)** 	**Make preparations for recording. Cassette deck X-H9 (option)** **MD** →28

2 *Adjust the listening volume.*

÷For recording of broadcasts, the minimum volume is set automatically when the unit is switched on by the timer.

3 *Set the ON/STANDBY key to STANDBY position.*



4 *Select a program No.*

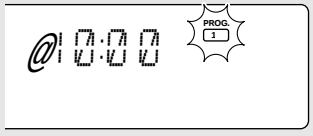
❶

Continue to step ❷ within 8 seconds.

❷

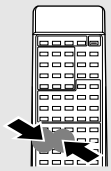
Press during display of the program contents.

Each press of the key switches the program numbers as follows.
① **PROG.1..... Program 1**
② **PROG.2..... Program 2**
③ **Normal operation**

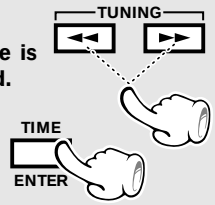


÷The selected program No. lights.
÷If a program No. under which a timer program has already been reserved, it is replaced by the new timer program.

5 Enter the ON time.

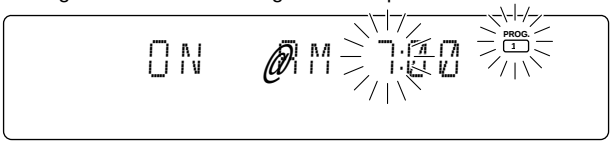


❶ The time is returned. The time is advanced.



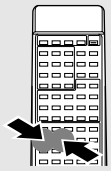
❷

÷After entering the figure of "hour" with the procedure in ❶ and ❷, enter the figure of "minute" using the same procedure.

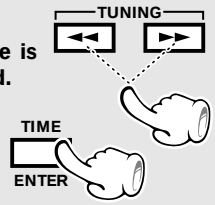


÷If you make a mistake, restart from step 4.

6 Enter the OFF (STANDBY) time.

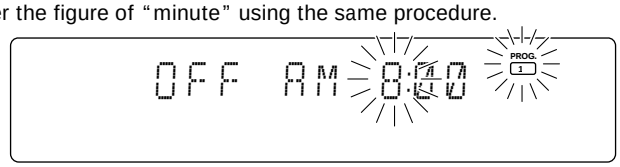


❶ The time is returned. The time is advanced.



❷

÷After entering the figure of "hour" with the procedure in ❶ and ❷, enter the figure of "minute" using the same procedure.

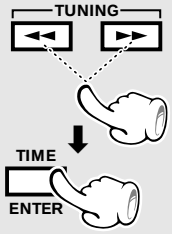


÷If you make a mistake, restart from step 4.

7 Make the desired reservation.

For timer playback or AI timer playback

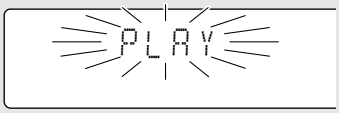
❶ Select the mode.



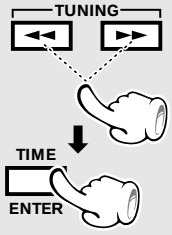
(1) Select "PLAY" or "AI".

- ① **PLAY** ..... Timer play
- ② **REC**
- ③ **AI** ..... Timer play with gradually increasing volume

(2) Enter it.



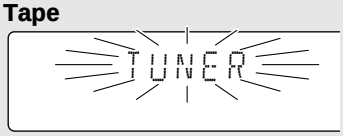
❷ Select the input source.



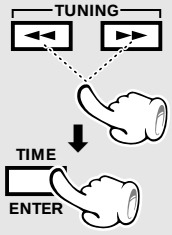
(1) Select the source to be played.

- ① **TUNER** ..... Broadcasts
- ② **CD** ..... CD
- ③ **AUX** ..... External input
- ④ **MD** ..... MD
- ⑤ **TAPE** ..... Tape

(2) Enter it.

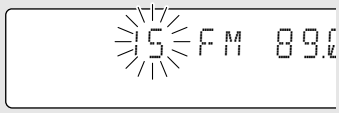


❸ Select the broadcast station (only when TUNER is selected above).



(1) Select the preset station No.

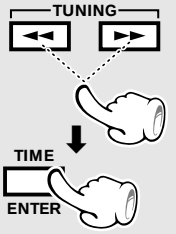
(2) Enter it.



÷The station to be received with timer must be preset beforehand. → 27

Timer recording of radio broadcasts

❶ Select the mode.

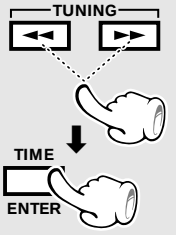


(1) Select "REC".

- ① **PLAY**
- ② **REC**
- ③ **AI**

(2) Enter it.

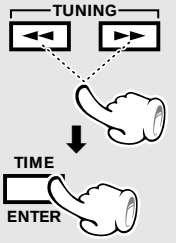
❷ Select the broadcast station.



(1) Select the preset station No.

(2) Enter it.

❸ Select the recording equipment.

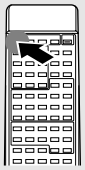


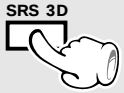
(1) Select.

- ① **MD**
- ② **TAPE (Optional cassette deck X-H9 only)**

(2) Enter it.

8 Select the timer program No. to be used.





Each press of the key switches the program numbers as follows.

- ① **PROG.1..... Execution of program 1 only.**
- ② **PROG.2..... Execution of program 2 only.**
- ③ **PROG.1, 2... Execution of programs 1 and 2.**
- ④ **Timer OFF**

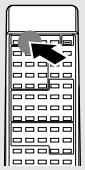
÷The selected program No. lights.
÷The timer will not function unless a program No. is selected.

Ensure that the unit is OFF (STANDBY).

Note

The reservation contents cannot be cleared. The contents are cleared only when they are changed.

Check the reservation content



Select the program number to be checked.

Each press of the key switches the program numbers as follows.

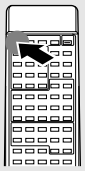
- ① **PROG.1 ..... Display of program 1**
- ② **PROG.2 ..... Display of program 2**
- ③ **Normal mode**

÷The reserved contents will be displayed for 3 seconds per item. After this, the previous display content appears again.

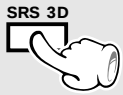
To change the reserved contents

Restart the procedure of "Timer programming" from the beginning.

When timer operation is not required



Press so that all PROG. indicators are OFF.

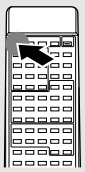


Each press of the key switches the program numbers as follows.

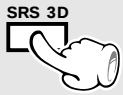
- ① **PROG.1 ..... Program 1 operates.**
- ② **PROG.2 ..... Program 2 operates.**
- ③ **PROG.1, 2 .... Programs 1 and 2 operate.**
- ④ **Not lit ..... No program operates.**

To set the same timer program again

÷The reservation contents are held in memory.



Press so that the desired PROG. indicators lights.



Each press of the key switches the program numbers as follows.

- ① **PROG.1 ..... Program 1 operates.**
- ② **PROG.2 ..... Program 2 operates.**
- ③ **PROG.1, 2 .... Programs 1 and 2 operate.**
- ④ **Not lit ..... No program operates.**

÷Also prepare the disc or MD and adjust the listening volume.

Maintenance

Maintenance of the Set

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

In regard to contact cleaners

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

Reference

Beware of condensation

When water vapor comes into contact with the surface of a cold material, condensation is produced.
If condensation occurs, correct operation may not be possible, or the unit may not function correctly.
This is not a malfunction, however, and the unit should be dried-out. (To do this, turn the ON/STANDBY key ON and leave the unit as it is for several hours.)

Be especially careful in the following conditions:
÷When the unit is brought from a cold place to a warm place, and there is a large temperature difference.
÷When a heater starts operating.
÷When the unit is brought from an air-conditioned place to a place of high temperature with high humidity.
÷When there is a large difference between the internal temperature of the unit and the ambient temperature, or in conditions where condensation occurs easily.

Memory backup function

Stored contents which are cleared immediately when power plug is unplugged from power outlet	Clock display
Stored contents which are cleared in at least a day after power plug is unplugged from power outlet	**Amplifier section** ON/STANDBY status (ON or STANDBY) Input selection Volume control value Balance setting Equalizer user memory **Tuner/equalizer section** Receiving band Frequency Preset stations Program settings SRS 3D level
Memory contents which are lost after at least one day with unit OFF (STANDBY) or the power plug pulled from the outlet.	**MD recorder section** Display mode Recording level → 81

WARNING NOTICE:

IN MOST CASES IT IS AN INFRINGEMENT OF COPYRIGHT TO MAKE COPIES OF TAPES OR DISCS WITHOUT THE PERMISSION OF THE COPYRIGHT OWNERS. ANYONE WISHING TO COPY COMMERCIALLY AVAILABLE TAPES OR DISC SHOULD CONTACT THE MECHANICAL COPYRIGHT PROTECTION SOCIETY LIMITED OR THE PERFORMING RIGHTS SOCIETY LIMITED.

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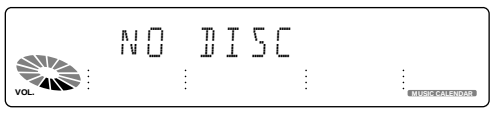
Purchase of this product does not convey the right to sell recordings mode with the SOUND RETRIEVAL SYSTEM.

Note related to transportation and movement

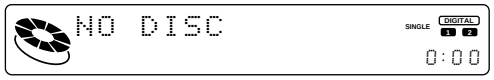
Before transporting or moving this unit, carry out the following operations.

1. Press the ▲ key and remove all CDs and MD.
2. Verify that the display shown appears.

Tuner/equalizer section



MD Recorder Section



3. Wait a few seconds and turn the unit OFF (STANDBY).

When your unit needs to be repaired, bring the entire set (Speakers excluded) to your dealer.

MD system

The Mini Disc system has the features as summarized in the following.

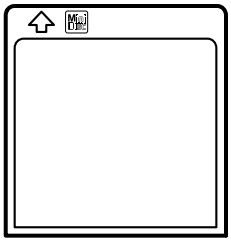
① Like CD (Compact Disc), playback can be started from any position. (Random access)
② It uses a disc with a diameter of 64 mm that is accommodated in a cartridge.
③ Two types of discs can be used.
④ Up to 74 minutes of recording or playback is possible using high-efficiency coding technology.
⑤ Countermeasure against vibration is taken using semiconductor memory chip.

Two Mini Disc types

There are two types of Mini Disc, the one designed exclusively for playback and the other which is both recordable and playable.

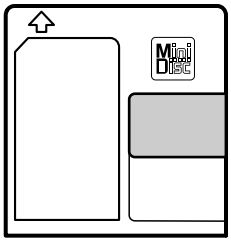
Playback-only Mini Disc

This type of MD can be used only for playback, and is used by the commercially-available music MD software packages. The playback-only MD is an optical disc like the Compact Disc (CD). The signals are recorded as the presence or absence of small pits and read out by an optical, non-contact pickup.



Recordable Mini Disc

This MD is a magneto-optical disc which can be recorded by magnetic field modulation. To record signals, laser light is irradiated from the bottom side of the magneto-optical disc and magnetic field is applied from the upper side of it.



High-efficiency coding technology "ATRAC"

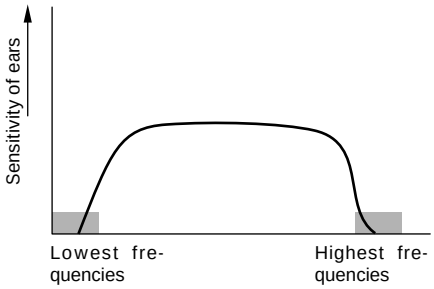
The Mini Disc has only a half the size of the Compact Disc but provides the same recording time. This is made possible by ATRAC*, a newly developed high-efficiency coding technology.

*** ATRAC: Adaptive TRansform Acoustic Coding**

The ATRAC compresses the music data to about 1/5 the amount of data which would be obtained with conventional technology, by cutting off the sound components which do not pose problem in audition even when they are not present. This has made it possible to record or play up to 74 minutes.

Sound does not affect the sensitivity of ears

Lowest and highest frequencies are not audible unless the sound has a certain level of volume.



Small sound near large sound

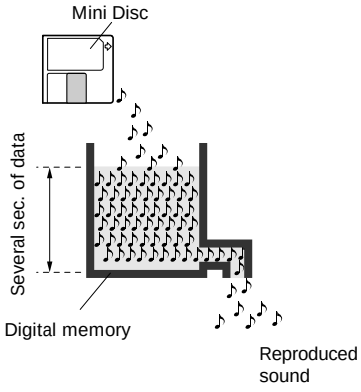
A small sound is not audible to human ears if it is produced at the same time as a large sound. (Masking effect)

Sound-skip prevention memory

During playback, this unit always stores signals in memory temporarily to prevent sound from being skipped in case of vibration. As a result, even when the data from the optical pickup is interrupted due to vibration, etc., the music will not be interrupted because the memory holds the data for several seconds.

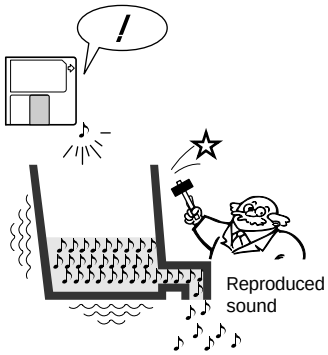
During normal playback

The sound data for several seconds is always stored during playback.



In case of vibration

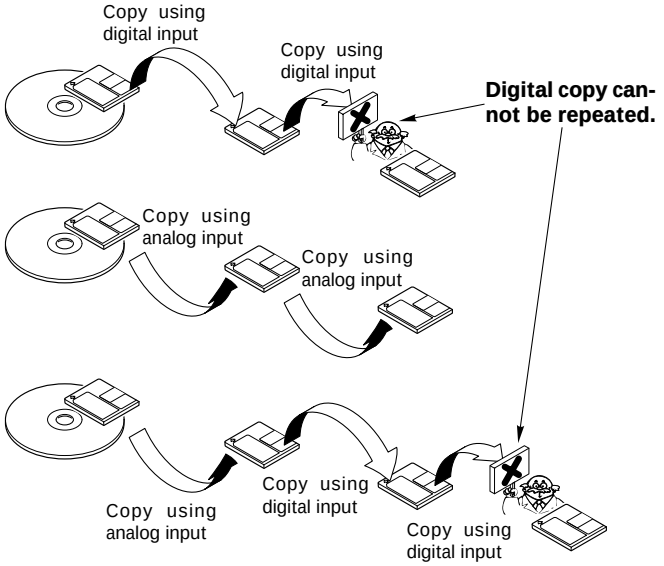
Even when the readout from disc is interrupted momentarily due to vibration or shock, the reproduced sound from the memory will not be interrupted.



Digital recording and SCMS

The Mini Disc cannot record digital input signals from all sources. Note that digital recording is not possible with the following case.

In case the source contains the copy prohibit code (SCMS – Serial Copy Management System).
— "001 SCMS" is displayed and the unit enters the record-pause mode.



SCMS (Serial Copy Management System)
Designed for copyright protection, the SCMS is a prescription that copying of digital signals as they are in the digital form between digital audio equipment is allowable only for one generation.

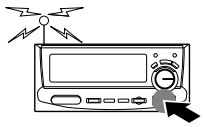
US and foreign patents licensed from Dolby Laboratories Licensing Corporation.

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.

Pull the power plug, keep the ENTER key of the tuner/equalizer section pressed, and insert the power plug again into the outlet.



Amplifier section/Speakers

Symptom	Cause	Remedy
Sound is not produced.	÷The speaker cords are disconnected.	÷Connect properly referring to "System connection". → 6
	÷The volume control is set to the minimum position.	÷Adjust to an required volume. → 18
	÷The **MUTE** key of remote control unit is switched ON.	÷Switch **MUTE** OFF. → 19
	÷The headphone plug is inserted into the jack.	÷Unplug the headphone plug. → 19
	÷The system connection cord is disconnected.	÷Check the connection of the system connection cord. → 6
"PROTECT" is displayed and no sound is put out.	÷The speaker cords are short-circuited.	÷Turn the unit OFF (STANDBY), remove the short-circuit and turn the unit ON again.
No sound from the headphones.	÷Imperfect insertion.	÷Insert correctly. → 19
Sound is not produced from the left or right speakers.	÷The speaker cords are disconnected.	÷Connect properly referring to "System connection". → 6
	÷The BALANCE is set completely to the left or right channel.	÷Adjust the optimum left and right balance. → 68
The unit suddenly is switched off (STANDBY).	÷The **AUTO POWER SAVE** function has operated.	÷Cancel the **AUTO POWER SAVE** function. → 19

Tuner/equalizer section

Symptom	Cause	Remedy
The clock display blinks without changing the figures.	÷There was a power failure.	÷Adjust the present time again. Π
	÷The power cord was unplugged from the outlet.	÷Adjust the present time again.
Timer operation is not possible.	÷The present time has not been adjusted or there was a power failure.	÷Adjust the present time referring to "Clock adjustment". Π
	÷The timer ON time and OFF (STANDBY) time have not been set.	÷Set the timer ON time and OFF (STANDBY) time. → 72
	÷The timer execution was not set up.	÷Press the **SRS 3D** key to set up the execution. → 73
Radio stations cannot be received.	÷The antennas have not been connected.	÷Connect antennas. → 6
	÷A proper broadcasting band has not been selected.	÷Select a band. → 26
	÷The frequency of the station to be received is not tuned.	÷Tune to the frequency of the desired station. → 26
Noise interferes.	÷Car ignition noise.	÷Install the outdoor antenna in an apart position from the road.
	÷Influence of an electric appliance.	÷Switch the suspected electric appliance OFF.
	÷A TV set is installed near the system.	÷Install the TV or the system at an increased distance between them.
A station has been preset but it cannot be received by pressing the P.CALL key.	÷The frequency of the preset station is not tunable.	÷Preset stations with tunable frequencies.
	÷The preset memory has been cleared because the power cord has been unplugged for a long period.	÷Preset stations again. → 27
Demonstration has started suddenly.	÷The power plug has been pulled or a power failure has occurred during the unit ON.	÷This is no defect. Press the **DISPLAY/DEMO** key to cancel the demonstration. → 69
An error message is displayed. ("ERROR*(number)")	÷This indicates some trouble. The number differs according to the trouble contents.	÷Please contact the nearest Kenwood dealer.

Symptoms related to MD standard

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

MD recorder section (other symptoms)

Symptom	Cause	Remedy
Sound is not output even when the play key is pressed.	÷ The cords are connected erroneously. ÷ No disc has been loaded. ÷ A non-recorded disc has been loaded.	÷ Connect the cords in accordance with "System connections". → 6 ÷ Load a disc. → 22 ÷ Load a prerecorded disc or playback-only disc. → 77
Recording is not possible	÷ The disc is write-protected. ÷ An attempt is made to record digital signal from a source while its digital copy has been prohibited by SCMS. ÷ The recording level is too low. (with use of AUX or TAPE) ÷ A playback-only disc has been loaded. ÷ The disc does not have a recordable area. ÷ The input selector is set to MD.	÷ Change the position of the write protect tab to the write position or use a recordable disc. → 5 ÷ Recording is not possible. → 78 ÷ Adjust the input level. → 68 ÷ Use a recordable disc. → 77 ÷ Use another disc. ∞ ÷ Set the input selector to the source to be recorded. → 28
Sound is distorted.	÷ The recording level has not been adjusted(with use of AUX or TAPE). ÷ A disc in which distorted sound has been recorded is played.	÷ Adjust the input level. → 68 ÷ Record again. → 28
Noise is noticeable.	÷ An external noise is induced.	÷ Install the unit at a position apart from an electric appliance or TV set.
The recorded volume changes during the recording.	÷ The **jog dial** has been moved during analog recording.	÷ Do not move the knobs during recording. → 28
The display goes out for a moment after the unit has been turned ON.	÷ Switching is operated too quickly.	÷ This is not a malfunction.

MD recorder section (Displayed messages and actions to be taken against them)

Displayed Message	Meaning	Action
NO DISC	÷No disc is placed on the tray.	÷Load a disc. →22
001 SCMS	÷An attempt is made to record digital signal from a source while its digital copy has been prohibited by SCMS.	÷Switch to analog recording. →78
DISC FULL	÷There is no recordable area on the disc. ÷An attempt is made to record a 256th track.	÷Use another recordable disc. ÷More than 256 tracks cannot be recorded per disc.
TITLE FULL	÷An attempt is made to assign a title with more characters than usable.	÷Refer to "Total number of title characters". →57
BLANK DISC	÷The disc does not contain any recordings.	÷When playback is required, use a recorded disc.
NO TRACKS	÷The disc does not contain any tracks but has a disc title.	÷The disc can be used for recording without any problem.
DISC READING	÷The TOC *1 data of the disc is being read.	÷This is a normal operation.
DISC WRITING	÷The data related to editing or recording is being written in the disc.	÷This is a normal operation.
DISC ERROR	÷The contents of UTOC *2 are abnormal.	÷Perform **"ALL ERASE"** operation. If this is not possible, use another disc. →64
CAN NOT EDIT	÷An attempt is made to perform editing beyond the restrictions, for example to erase a track which is too short.	÷Perform editing following the restrictions.
ok?(blinking)	÷This is a message for confirming if editing can really be executed.	÷Press the **ENTER** key to execute editing.
PROTECTED	÷The minidisc is write-protected.	÷Cancel the write protection. →5
UNRECORDABLE	÷The minidisc is only for playback.	÷Insert a minidisc for recording. →77

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

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

Memory Backup for the MD Recorder Section

At the time of unit OFF (STANDBY), or when the power plug is pulled from the outlet, the memory contents will remain stored for about one day. In case of long power failures or long times with the plug pulled from the receptacle, the information in regard to recording or editing (recorded when the minidisc is removed) may be erased or destroyed) before recording on the minidisc. Once the information has disappeared, it can not be recovered.
After recording or editing, always remove the minidisc to record the recording or editing information.

CD player section

Symptom	Cause	Remedy
A CD is placed in the player but it cannot be played.	÷The disc is placed upside down. ÷The disc position is displaced. ÷The disc is extremely dirty. ÷The disc is scratched. ÷Dew is condensed on the optics lens.	÷Place the disc properly, with the label side facing upward. ÷Place the disc properly. ÷Clean the disc referring to "Disc handling precautions". → 5 ÷Try another disc. ÷Refer to "Beware of condensation" and remove the condensation by evaporation. → 76
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 ►/II key. → 20 ÷Clean the disc referring to "Disc handling precautions". → 5 ÷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". → 5 ÷Try another disc. ÷Install the unit in a place not subject to vibrations.

Remote control unit

Symptom	Cause	Remedy
Remote control operation is not possible.	÷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. ÷There is no CD or MD set in the component to be played.	÷Replace with new batteries. → 17 ÷Operate the unit inside the remote control-lable range. → 17 ÷Set a CD or MD in the component to be played.

Specifications

Tuner/equalizar unit (C-H7) / Amplifier unit (A-H5)

[Amplifier section]
Rated power output
..... 80 W + 80 W (1 kHz, 10 % T.H.D. at 6 Ω)
..... 60 W + 60 W (1 kHz, 0,7 % T.H.D. at 6 Ω)
Total harmonic distortion ..... 0,09 % (1 kHz, 30 W, 6 Ω)
Signal to noise ratio
AUX, TAPE ..... 90 dB (IHF-A)
Input sensitivity / Impedance
AUX, TAPE ..... 200 mV / 47 kΩ (SOURCE DIRECT)
Output level / Impedance
TAPE REC ..... 200 mV / 2,2 kΩ
SUPER WOOFER PRE OUT
..... 2 V / 2,2 kΩ (SOURCE DIRECT)

[FM tuner section]
Tuning frequency
..... 87,5 MHz ~ 108 MHz
Sensitivity (DIN)
MONO ..... 1,8 μV (75 Ω) / 16,2 dBf (40 kHz dev., S/N 26 dB)

[MW tuner section]
Tuning frequency
..... 531 kHz ~ 1.602 kHz

[LW tuner section]
Tuning frequency
..... 153 kHz ~ 279 kHz

[General (C-H7)]
Dimensions ..... W : 270 mm (10-5/8")
H : 124 mm (4-7/8")
D : 322 mm (12-11/16")
Weight (net) ..... 2,1 kg (4,6 lb)

[General (A-H5)]
Consumption ..... 180 W
Dimensions ..... W : 270 mm (10-5/8")
H : 104 mm (4-1/8")
D : 343 mm (13-1/2")
Weight (net) ..... 4,6 kg (10,1 lb)

Notes

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).

CD player unit (DP-MH5)

D/A conversion ..... 1 bit
Oversampling ..... 8 fs (352,8 kHz)
Frequency response ..... 8 Hz ~ 20 kHz, ± 1 dB
Signal to noise ratio ..... More than 96 dB
Dynamic range ..... More than 90 dB
Total harmonic distortion ..... Less than 0,007 % (at 1 kHz)
Channel separation ..... More than 90 dB (at 1 kHz)
Wow & Flutter ..... Less than unmeasurable limit
Digital output
OPTICAL ..... -21 dBm ~ -15 dB (wave length 660 nm)

[General]
Dimensions ..... W : 270 mm (10-5/8")
H : 104 mm (4-1/8")
D : 326 mm (12-13/16")
Weight (net) ..... 3,4 kg (7,5 lb)

MD recorder unit (DM-H5)

Laser ..... Semiconductor laser
Recording method
..... Field modulation overwrite method
Audio compression
..... ATRAC (Adaptive TRansform Acoustic Coding)
D/A conversion ..... 1 bit
Oversampling ..... 128 fs (4096 kHz, 5644,8 kHz, 6144 kHz)
A/D conversion method ..... sigma-delta method
Sampling frequency ..... 32 kHz, 44,1 kHz, 48kHz
Frequency response (playback mode) ..... 20 Hz ~ 20 kHz, ± 1 dB
Signal to noise ratio (playback mode) ..... More than 92 dB
Dynamic range (playback mode) ..... More than 90 dB
Total harmonic distortion (playback mode)
..... Less than 0,01 % (at 1 kHz)
Channel separation (playback mode) .... More than 86 dB (at 1 kHz)
Wow & Flutter ..... Less than unmeasurable limit
Digital output
OPTICAL 1, 2 ..... -21 dBm ~ -15 dB (wave length 660 nm)

[General]
Dimensions ..... W : 270 mm (10-5/8")
H : 124 mm (4-7/8")
D : 327 mm (12-/8")
Weight (net) ..... 2,5 kg (5,5 lb)

Speakers (LS-H6)

Enclosure ..... Bass-refrex type, magnetically shielded
Speaker configuration ..... 3-way type
Woofer ..... 160 mm, cone type
Tweeter ..... 65 mm, cone type
Super-tweeter ..... 25 mm, dome type
Impedance ..... 6 Ω
Maximum input level ..... 80 W
Frequency response ..... 43 Hz ~ 20,000 Hz

[General]
Dimensions ..... W : 230 mm (9-1/16")
H : 456 mm (17-15/16")
D : 295 mm (11-5/8")
Weight (net) ..... 5,7 kg (12,6 lb)(1 piece)

Notes

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).

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 _____