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Using correct way audio equipment

To safe use of audio equipment, please read carefully before use.

In order to use properly this product and to help you use the product safely and correctly, and to prevent damage to property or injury to you or other persons, this "manual" provide you Safety information . Symbols and their meanings do now and is as follows. Please read and ensure that you understand the contents



Warning

When you handle the device the wrong way, or if you ignore warning signs, could be assumed result in minor or content and danger of personal injury is assumed.



Warning Signs



Is drawn (Electrical Hazard The illustration on the left-hand side) Note specific content is shown in the circle.



⊘ prohibited action mark. Runs are shown (disassembly is prohibited if the figure on the left) prohibited action is shown in or around the circle.



● Symbol of obligatory action



(please disconnect the power plug in the case of the upper-left figure) giving details in or next to the illustration.

 **IMPORTANT**

Safety notice of correct usage audio equipment

- Please do not use it in the bathroom . This can cause a fire or electric shock .
 - This unit is designed for indoor use only . Please be careful not to wet . Water enters the internal
- And , it could cause a fire or electric shock .
- Do not place containers of water
 - a small metal objects container with liquid or vases , flower pots , cups , cosmetics , and chemicals on top of the projector
- Please do not put it . When it gets in , it could cause a fire or electric shock .
- Do not put a thing in
 - insert anything metallic or flammable ventilation holes of this unit , and from the insertion opening of the mini- disc , drop
- Please not trapped when closing crowded said. This can cause a fire or electric shock . In households with young children
- Please note that .
- foreign matter and water when inside
 - In the unlikely event that water or foreign matter gets inside of this unit , sales to unplug the power plug from the outlet immediately
- Please contact the shop .
- Do not touch the equipment If lightning begins
 - If lightning begins to occur , please do not touch the power plug . Failure to do so may cause electric shock .
 - You can damage the power cord , it is not processed
 - Please request a replacement (exposure of the core , disconnection , etc .) to the store selling power cord becomes damaged . As it is
- This can cause a fire or electric shock to use.
- Do not place heavy objects on the power cord , do code in such a manner that does not become trapped under the machine
- Stomach. Damage to the power cord and cause a fire or electric shock . Be covered with a carpet on code
- Please be advised that by , oblivious to it , it would place a heavy object .
- Do not damage the power cord , or processing , and excessive bending, twisting , or pulling , heating
- Please do not use . Code is damaged , it could cause a fire or electric shock .
- Do not connect audio equipment other than a power outlet
 - power outlet of this unit is an audio -only device . Please use the rating within it appears . Electric heating device, such as a hair dryer and electric kotatsu and equipment rated greater than or equal to the display , oven -les
- Please never connect the cookware such as Nji . This can cause a fire or electric shock .
- Do not use while it is dropped or damaged
- Should ● , and if you drop the machine by mistake , if it is the cabinet be damaged , do not accept
- Please Do not . This can cause a fire or electric shock . Unplug the power plug from the outlet , sale always
- Please consult your store .
- Do not charge the battery
 - Please do not charge batteries . The leak or rupture of the battery , you may cause fire , injury

Notes on Installation

- where you wobble or base or lack of strength , was tilting , on top of the thick carpet , the unstable Please do not put in place . You may want to fall or tip over , causing injury .
- Please do not move from carrying other audio equipment on top of the machine . It may fall or tip over , only
It may cause moth .
- Do not place anything like large protrude from the outer frame and heavy of 10kg or more on top of the machine
Stomach. You may want to drop or fall off balance , causing injury .
 - Do not put in place , such as:
 - Please do not place the oily smoke or steam such as near a humidifier cooking range or touches . Fire , cans Doing so may cause electric .
 - Please do not put it in a humid or dusty place . It may cause a fire or electric shock .
 - For connection
 - If you want to connect to devices such as TV and other audio equipment to this unit , **handling theory** of equipment of each
Read the certificate , turn off the power switch , please connect them according to the description . The connection specified
Please use the code . If you can extend the code you can use the code other than those specified , the calling You may want to heat , can cause burns .
 - Usage Notes
 - If you do not feel like taking the machine , please do not hang . Please note that for children in particular .
Fall
It may or , causing breakage , causing injury .
 - Please do not look into the laser light source . Fox blurred vision laser light hits the eye
There is a door .
 - Please note that children do not put your hands on mini disc insertion slot . Fox cause of injury
There is a door .
 - Please do not use discs that have been repaired with adhesive cracks , or deformation , . Disk
Because it rotates at a high speed equipment inside , which could cause injury is scattered .
 - Note: Power cords, power plug
 - Please do not bring it close to a heater power cord . Cord coating to melt, and cause fire or electric shock
May become .
 - Please do not connect or disconnect the power plug with wet hands . Doing so may cause electric shock .
 - When disconnecting the power plug , please do not pull the power cord . Damaged cables , fire -
Doing so may cause electric shock . Please you pull the plug.
 - power cord - please do not use it in a bundled state soil . It generates heat , causing a fire or there To .
 - When a long period of time , is not to be used for the machine , such as travel , cross-talk the power plug for safety Please pull from a remote . It may cause a fire .
 - Unplug the power plug from the outlet , If you want to move , such as the connection of external code between devices
Please go after and remove the connecting cord . Is that the code may be damaged , which could result in a fire or electric shock There .
 - About the battery
 - If you want to insert the battery in the remote control , polarity display - be aware of the (positive and negative direction of +) , display
Please put on the street . Battery rupture or leak, to fire, injury or stains around them If you make a mistake It may cause that .
 - Please do not use batteries other than those specified . Also, Do not mix old and new batteries
Please out. That the rupture of the battery , causing the pollution of surrounding fire , and injury leak While there
To .
 - the battery , you can not heat or disassemble , please do not put them in fire or water. Rupture of the battery , leak By , it may cause fire and injury .

Inspection and cleaning

- When cleaning, please go to unplug the power plug from the outlet for safety. Original electric shock May become a factor.

- Depending on the environment, but it is recommended to clean the equipment inside of once every two years. Sale of nearest Please consult your store.

So could result in fire or other damage while dust has collected inside the machine, if you do not clean for a long time

There. If you perform in front of the seasons of high humidity in particular, it is more effective. In addition, cleaning, inspection costs

Please contact your dealer also for such.

- now can cause a spontaneous combustion (tracking phenomenon) dust collects on the power plug is known

To. A few times a year, please remove dust plug on a regular basis. Rainy season before it is effective.

- Please do not apply to the unit thinner, the spray insecticide or alcohol. Paint change or bald

You may want to form.

- If you soak the cloth in mild solution of mild detergent, wiped off and wring it out, dirt on the surface, with a dry cloth

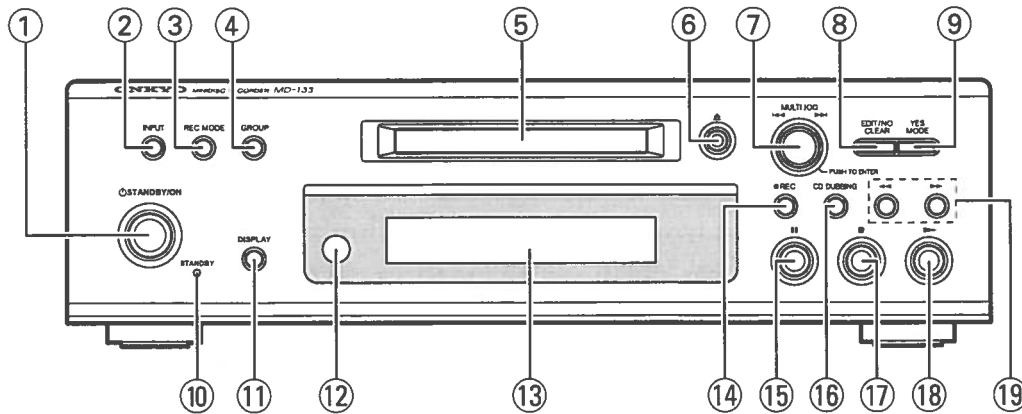
Please wipe.

If you want to use your or chemical-impregnated wiping cloths, please read and notes attached to it.

Display and remote control buttons

Front Panel

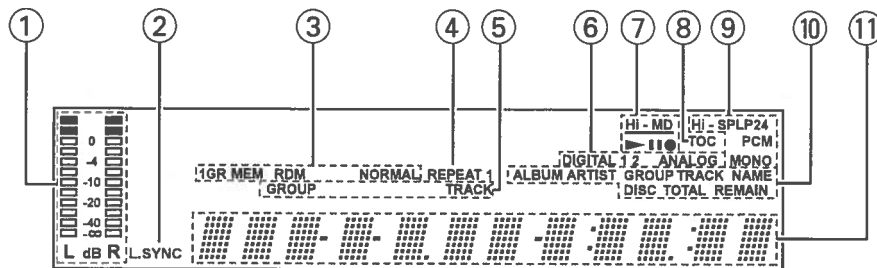
[] Main Description



- ① ^{スタンバイ} STANDBY/ON {17}
standby / power on button
- ② INPUT {28, 30}
change the input signal.
- ③ REC MODE Button {25}
Select a favorite mode from the recording mode to record setting
- ④ ^{グループ} GROUP button {37}
Group Play selection
- ⑤ MD slot {17}
insert the MD.
- ⑥ ▲MD out {18}
Eject MD Button.
- ⑦ ^{マルチ ジョグ} MULTI JOG ^{ヤル} (19, 48)
Jump back and forth the track number currently playing. You can choose a song and turn in a stopped state. It will play a song that is selected by press. Or choose the type of editing to select the type of characters in the name input. To confirm each setting and press.
EDIT/NO/CLEARボタン {26, 35, 48} 録
choose the contents of each editing operation and the settings, such as sound and playback. Press when you want to cancel the content displayed during setting.
- ⑧ YES/MODE {20, 21}
Press when deciding exactly as it appears in each editing operation and the settings, such as recording and playback.
In addition, the Press to a random play and memory play.
- ⑩ ^{スタンバイ} STANDBY Indicator {16}
This unit will light when the standby state.
- ⑪ ^{ディスプレイ} DISPLAY panel {23, 48}
Changes the information on the display unit.
Name input, I can choose the type of character.
- ⑫ Remote Receiver {13}
receive the signal from the remote control.
- ⑬ Display
Please see the next page.
- ⑭ ^{レック} REC Button {28, 30}
Analog recording / digital recording recording standby Pause
- ⑮ || button {18}
pause Press during playback. press it again to return to playback mode
- ⑯ ^{ダビング} CD DUBBINGボタン {26, 27}
start the CD dubbing for INTEC275 series connected amplifier, a CD player
- ⑰ ■Stop {18}
Stop Button to stop playback mode
- ⑱ ▶button {17}
Playback mode / play button
- ⑲ ◀▶ buttons {20, 48}
Rewind back and forth a song playing and / fast forward. Name input, also used to move the cursor.

Display and remote control buttons

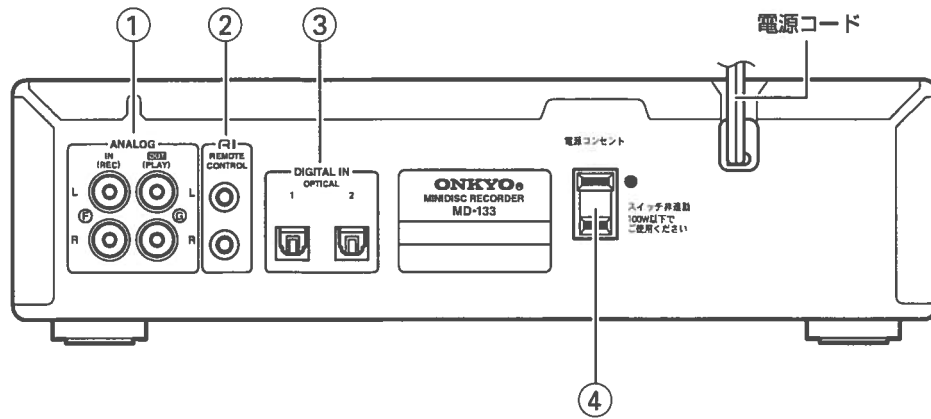
Display



- ① Level indicator [28]
display the audio level. Level Sync
- ② L.SYNC Display [33]
light goes on when the level sync function is working.
- ③ Playback mode display [20, 21, 38]
1GR : light one group playback.
MEM : The point when the memory playback is set Lights.
RDM : light goes on during random play.
NORMAL : light up during normal playback.
- ④ REPEAT 1 Display [22]
one track repeat playback.
REPEAT : track repeat playback.
REPEAT 1 : light one when one track repeat playback.
- ⑤ GROUP/TRACK indication
GROUP : The point when the number of groups is displayed
TRACK : The point when the track number is displayed
- ⑥ Input signal display [28, 30]
INPUT Input you have selected will lights up.
- ⑦ Operation mode display [25]
Shows the mode of operation of the unit.
MD Minidisc Mode
Hi-MD Hi-MD Operation Mode
- ⑧ TOC Display [53]
It flashes and lights up when you write information such as recording and editing, to MD.
- ⑨ Record modes [24, 25]
Mode for playback and recording.
During recording, the mode that is selected in the REC MODE button
- ⑩ MD Information display
⑪ Items that are displayed in the multi-purpose display of lights.
- ⑪ Multipurpose display unit
display shows information such as the name and playback time.

Display and remote control buttons

Rear panel

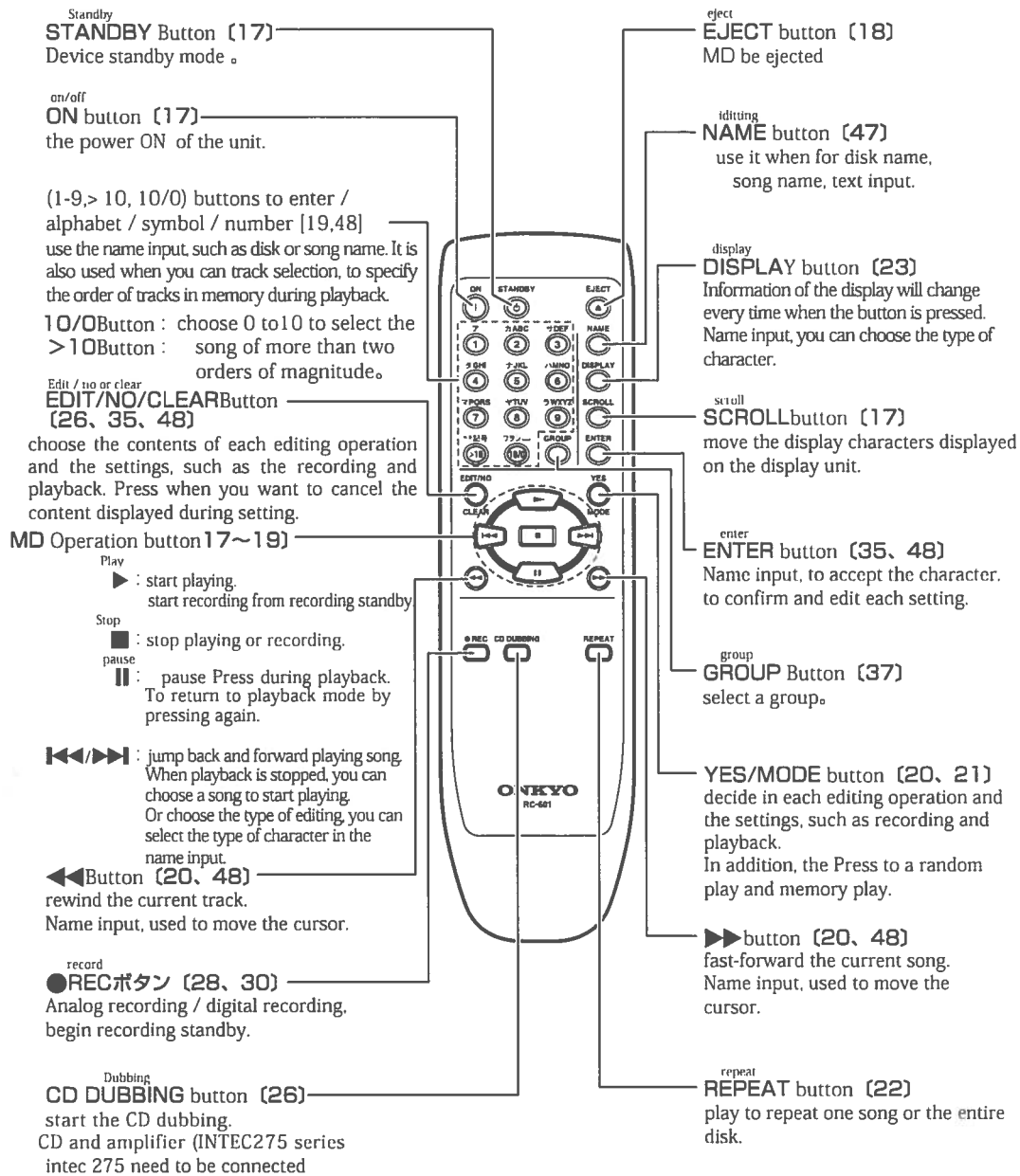


- ① ^{アナログ イン アウト} **ANALOG IN/OUT端子**
 These RCA inputs /outbputs are provided for the analog voice.
 Use the audio RCA cables provided to connect an amplifier.
- ② ^{リモート コントロール} **RIREMOTE CONTROL**
RThis is the terminal that is connected to the terminal with Onkyo products, and work together.
RIt does not work the only connection of the cable.
 Please connect correctly audio pin code.
- ③ ^{Digital optical in} **DIGITAL IN OPTICAL 1/2 TOC**
 This an optical digital input terminal. You can Connect CD player with digital output terminal, DVD player, and so on BS tuner by the optical digital audio cable supplied with the connection.
- PLEASE NOTE**
- Only 32kHz, 44.1kHz, you can record on this unit, the sampling frequency is 48kHz linear PCM signal. By verifying the setting of the digital output of the device to be connected, Please change the settings if necessary. For CD recorder or CD player, this option no need to be set.
- ④ **Power outlets**
 power plug of the equipment to be connected to the unit.
- Please note**
- The power outlet of the unit. Do not connect the equipment to a total of more than 100W.
 When connecting in series INTEC275, please refer to the instruction manual of the amplifier.

For connection, refer to page 15 and 16.

Display and remote control buttons

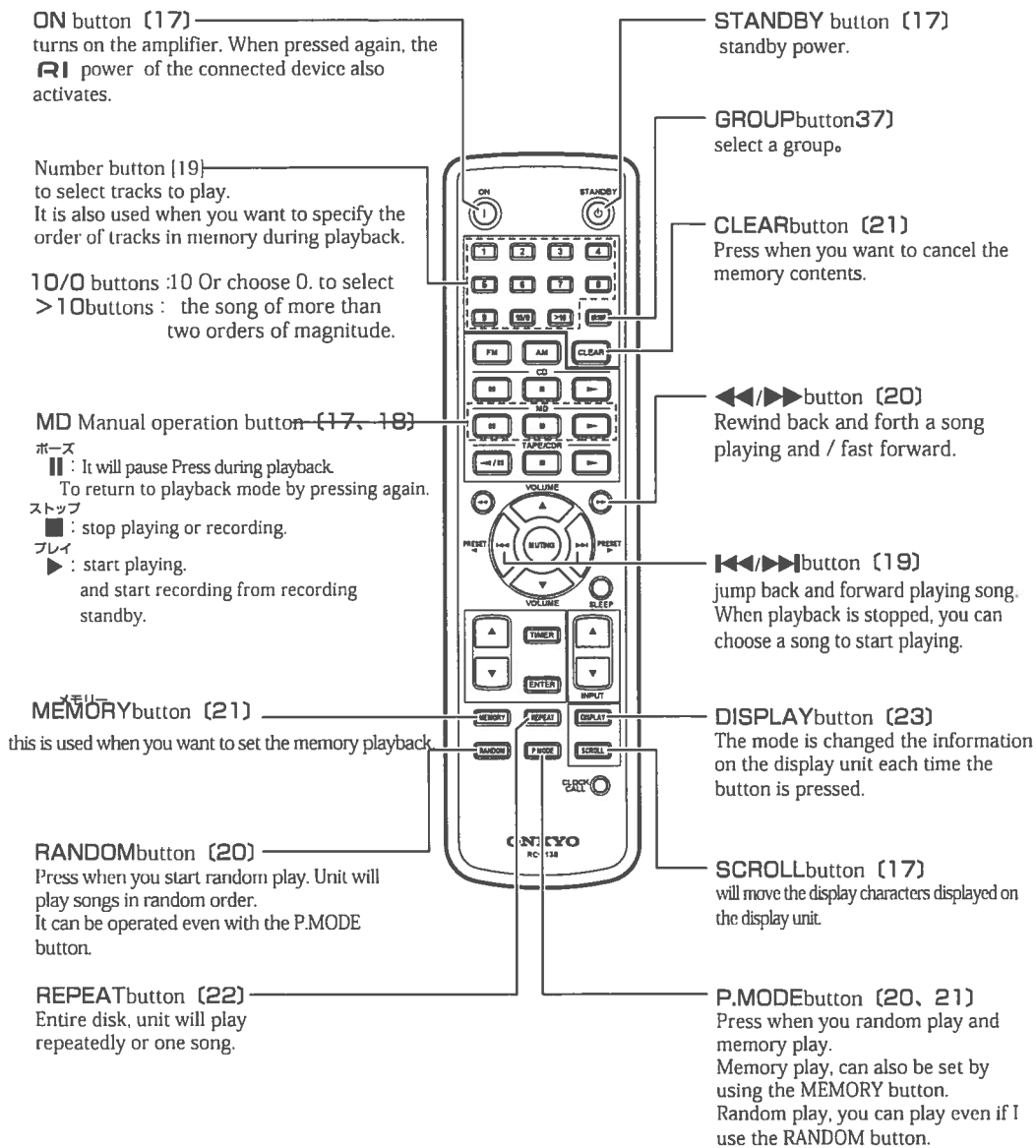
remote control supplied with the unit (RC-601)



Display and remote control buttons

remote control that comes with the A-933 (amp) of INTEC275 series (RC-613S)

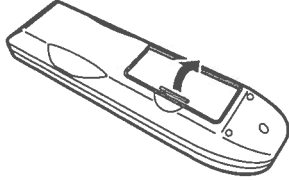
You can operate the remote control that comes with (RC-613S) to A-933 (amp) of INTEC275 series. Please operate the remote control towards the remote control light-receiving area of the A-933.



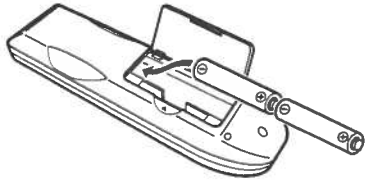
prepare the remote control

to insert batteries

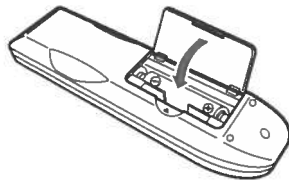
1. lift in the direction of the arrow cover



2. do not misspell the - plus and minus ± the two batteries provided in accordance with the polarity of the display during



3. open lid

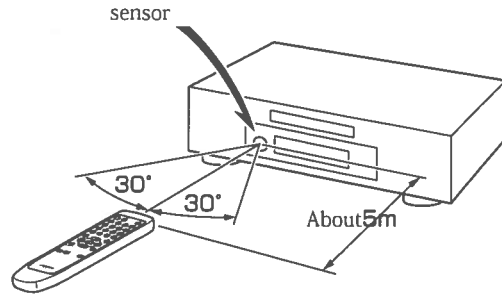


important

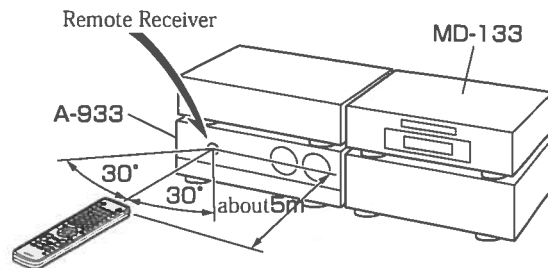
- Please do not mix and different types of batteries, or old and new batteries.
- If remote controller not in use the for a long time, please remove the batteries to prevent battery leakage.
- May damage the remote control by corrosion when I leave it put the exhausted batteries. When the reaction of the remote control worsens, please replace both of the batteries with new book and take out old batteries.
- Depending on the frequency of use, but the battery life with this camera about six months. When replacing the battery, please use the AA.

Using the remote control

Please operate towards the remote control sensor on the unit.



A-933 When you operate the machine with the supplied remote control (RC-613S) to (amplifier), please towards the remote control sensor of the A-933 remote control.



important

- May not work correctly when hit directly a strong light, such as inverter fluorescent light or sunlight onto the remote receiver.
- It may cause a malfunction or using the unit near equipment that uses infrared rays, the remote control used in combination with other.
- Please do not put such as a book, anything on top of the remote control. Doing so may cause the buttons to be held down which will cause the batteries to run down.
-
-

to make connection

The system function

When you connect cables, the audio **RI** pin code in combination INTEC275 series, you can use the following system features. The cable is **RI** a system cable operation of Onkyo that comes with the unit.

How to connect system (Connection of INTEC275 series)	➔	Refer to the instruction manual of the amplifier.
Auto power on When you turn on the machine, the power amplifier turns on automatically. Also, when you do not use this machine, you can this machine only turn off the power.		
Direct Change Input of the amplifier is switched to the MD automatically when you play the machine.		
Remote control It is possible to operate the remote control unit supplied with the amplifier.	➔	Please refer to the instruction manual of the amplifier
Timer operation Timer playback in tuner, timer recording will be.	➔	Refer to the instruction manual of the tuner
CD Dubbing This function allows one-touch recording to the unit from the CD player.	➔	Refer to this manual page 25 for more information.
Track designation CD dubbing You can one-touch recording to the unit by specifying a playback track and CD.	➔	Please read this manual on page 27 for more info
Synchronized recording Recording starts automatically only playback on the CD player if unit is in record-ready mode	➔	Please read this manual on page 31 for more info
Synchronized recording from the tape deck Recording starts automatically only play operation of the tape deck if unit is in record-ready mode	➔	Please read this manual on page 32 for more info
DLA*LINK Function By the peak search data on the CD player, the unit will automatically set the digital recording level.	➔	Please read this manual on page 26 for more info

- Each function does not work when the connection is not correct. Please connect properly audio **RI** pin code, the cable with reference to page 15.
- For the system function, please also refer to the instruction manual of each device.
- There is a feature that does not work in combination with earlier series INTEC275 some products. For information, please contact the Customer Center.

to make a connection

Before connecting the equipment

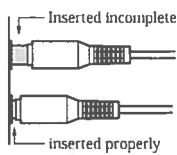
- Please read instruction manuals of the equipment
-

to connect audio pin code.

- Input pins (display of R) right channel the red connector. Please connect to (display of L) left channel white connector.



- Please insert all the way firmly plug in the code. When the connection is incomplete, it may cause malfunction or noise.



- Audio pin code power

Speaker code and source code
Please do not bundle with. It may sound as poor quality

The optical digital input terminal

The optical digital input jack on this unit, there is a door of dust-proof. Please insert an optical digital cable in the manner as it is.

important Optical digital cable, sure to disconnect straight
When you connect or disconnect the diagonal, you may door may be damaged.

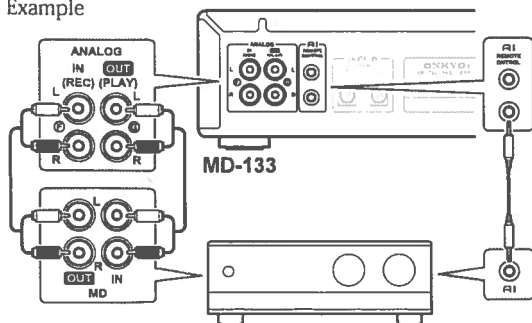
connect to the amplifier

connect the アナログ アウト analog audio input terminal of the amplifier and ANALOG OUT terminal G of the unit.

Analog audio output terminal of the amplifier and ANALOG IN terminal F of this unit

When using the system function in combination with Onkyo products with terminal, please connect the terminal of the amplifier and a terminal of this unit the cable supplied.

Onkyo amplifier connection with (A-933):
Example



-
- For the system function, please also refer to the instruction manual of each device.

- **RI** Only connection of the terminal does not work as a system. Please connect correctly audio pin code.

The connection with the INTEC275 series, refer to the instruction manual of the A-933 (amplifier).

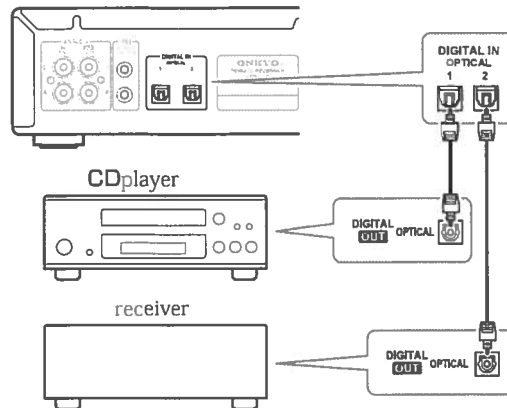
digital connection and playback equipment and amplifier

connecting the playback device with a digital audio output terminal

デジタル イン オプティカル
Of playback equipment and amplifier DIGITAL IN OPTICAL jack on this unit
connection the digital audio output terminal.

When using the system function in NTEC275 series, please connect to one terminal DIGITAL IN OPTICAL CD players.

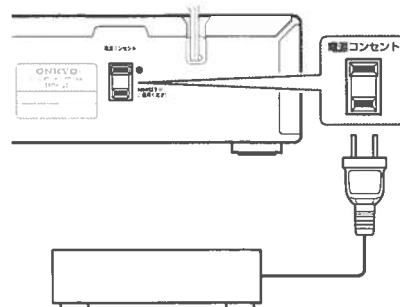
MD-133



connect other unit to power plug

Because there is a power outlet in the rear panel, you can connect the power plug of the product to be used in combination. We are always energized power outlet of the unit (non-exercise). Management of polarity has been the power outlet of the unit. If there is a mark on the power cord or plug in another device, please according to the W side of the power supply outlet of the unit mark side. If there is no mark on the power cord other machine, it does not matter when you connect either.
important

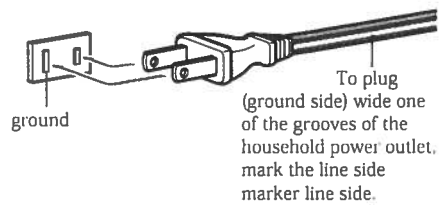
100VOLT Output , no more than 100Watt must be



Power

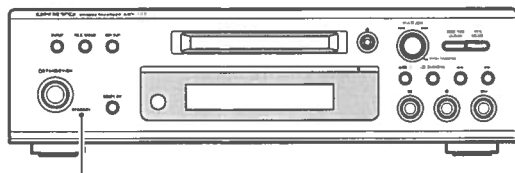
to connect the power cord

Plug in the AC power cord.



IMPORTANT

This is Japanese 100Volt operation unit . Make sure you use Your country - to 100 Volt Transformer .
Example Europe 230Volt to 100 Volt 30 Watt minimum
USA/Can 117 Volt - to 100 Volt 30 Watt minimum



led
STANDBYIndicator

Standby

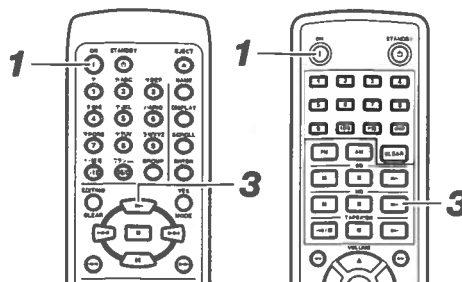
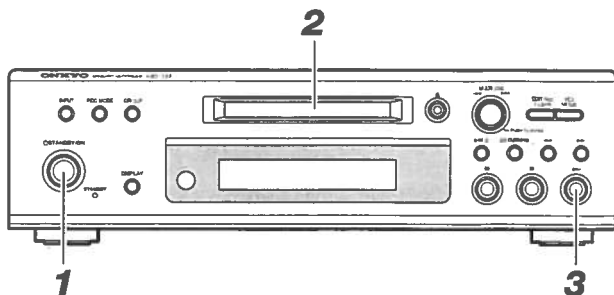
When you connect the power cord, STANDBY indicator of the unit will light.

Listed MD audio files

system operation

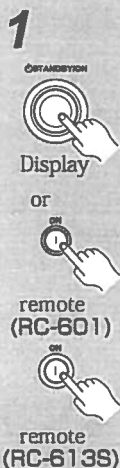
instructions in combination with INTEC275 series.

first track listening (normal playback)



Supplied with device Remote (RC-601)

A-933 with (amplifier) included remote control (RC-613S)



1 turn on the power
 Li or スタンバイ オン STANDBY / ON button
 press オン ON button on the remote controller.
 • STANDBY indicator turns off

If you place a disk where nothing is recorded, ブランク ディスク will show "Blank Disc" on the display unit.
 important

When the unit is in standby mode, you can't insert a disc.

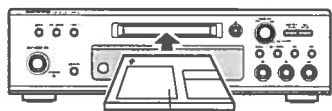
! Tips

after you place a disc recorded disk name is (name), disk name is displayed on the display unit, total playing time and total number of tracks is displayed after.

In addition, you can press the スクロール SCROLL button on the remote control to check the disk name.

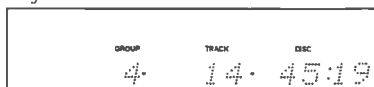
2

insert MD disc



On the label side
 -insert in the direction of the arrow
 when you loaded MD unit start リーディング "Reading"
 its appears TOC reading
 (Table Of Contents reading information)

total playing time and total number of tracks on the disk will be displayed. Depending on the contents of the disc, it may take about 60 seconds.



No of groups * Total No of tracks .Total playing time

* When you have a group recorded

3



Display

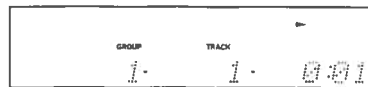


remote (RC-601)



remote (RC-613S)

start playing
 Play
 Playback starts from the first track when the button is pressed

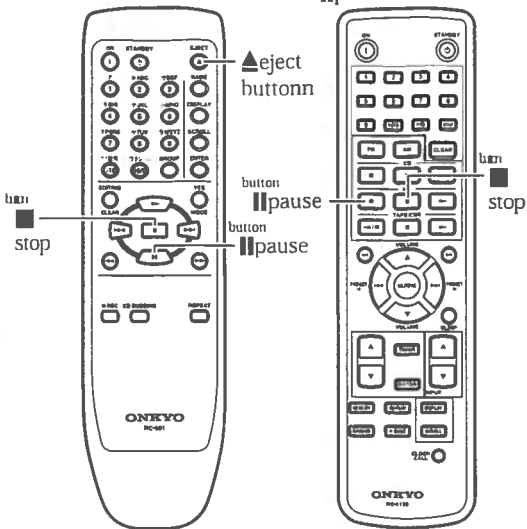
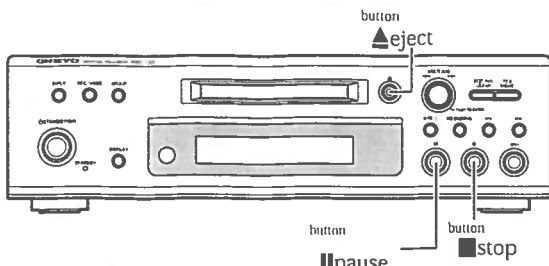


! tips

Playback also starts when you press the front panel MULTI JOG dial.

To standby mode
 -press the STANDBY button on the remote control or the STANDBY / ON button on the unit.

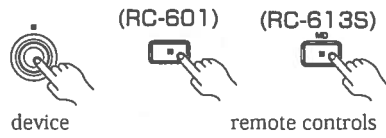
MD Listening



Supplied with device remote control (RC-601)

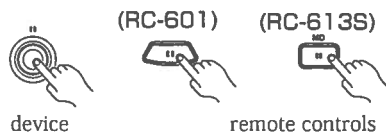
A-933 (remote control supplied with the amplifier) (RC-613S)

To stop the playback



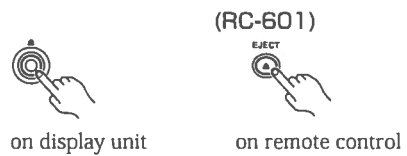
stop
press the button

To pause the playback



pause
press the button
If you want to play again, press this **▶ play button**.

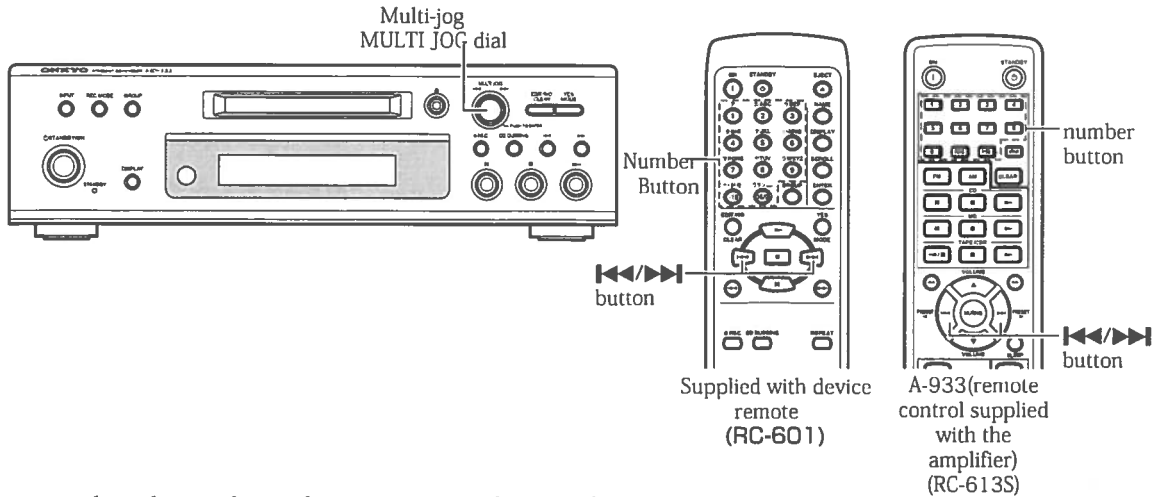
To eject the disc



Eject
press the button
"Eject" is displayed and the disc will be ejected.

MD OPERATION

play number of song you want to listen



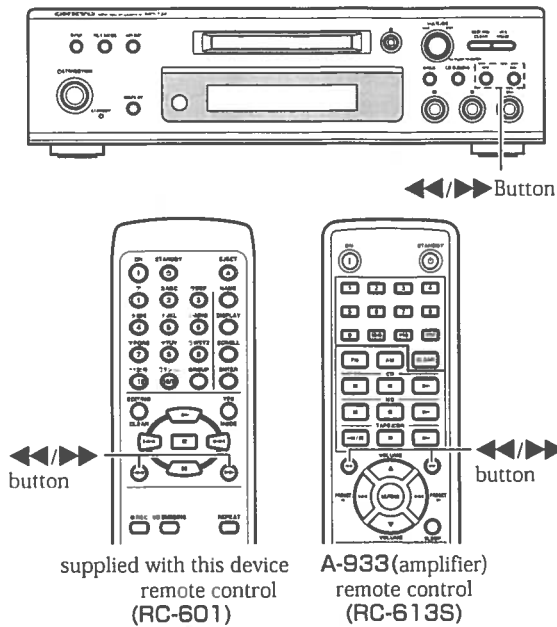
to select the track number you want to hear and

directly select the track number you want to hear. Skip playback

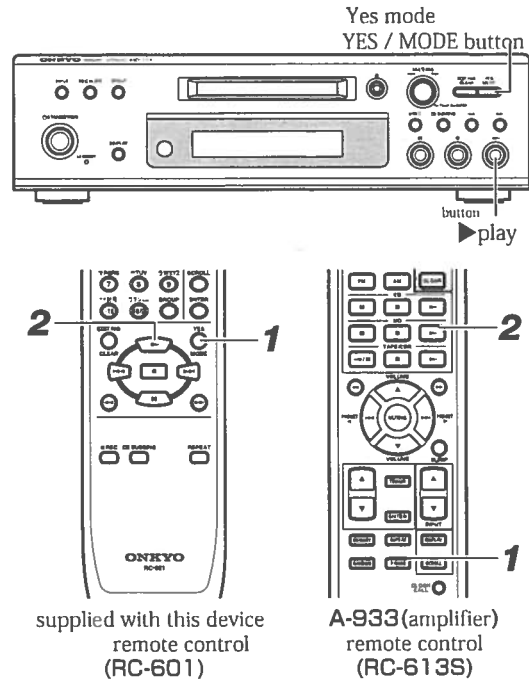
<p>RC-601</p> <p>RC-613S</p>	<p>To select tracks by pressing the number buttons on the remote Playback of the song that you want to start.</p> <p>1 Choose the track </p> <p>1 1 If you want to select a song track above, the total number of tracks on the disk, it is as follows.</p> <p>choose the 25 track Example:</p> <p> (total number of tracks is 99)</p> <p> total number of tracks is 999</p> <p> 1000 number tracks Or more tracks</p> <p>choose the 125 track Example:</p> <p> No of tracks less than 999</p> <p> total No tracks 1 000 Or more tracks)</p>	<p> on device</p> <p>OR</p> <p> on remote (RC-601)</p> <p> amplifier remote (RC-613S)</p> <p>On the remote control or the MULTI JOG dial on the main unit during playback choose the track number button select a song after you stopped the song during playback</p> <ul style="list-style-type: none"> • turn to the right the MULTI JOG dial. Or, on the remote control press this button <p>once again to play same song. To select the previous song To select the previous song </p> <ul style="list-style-type: none"> • turn to the left the MULTI JOG dial. Or, on the remote control press this button <p>You can choose track numbers in the order in which they are memory and operates in memory during playback. (See page 21)</p>
--	--	---

Listen to MD audio files

Search (find the part you want to listen)



Listen in random order (random playback)



Find while listening song
during playback ◀◀ or ▶▶ Release the finger in part to hold down the button, you want to listen
look while watching the time display (paused)

During pause ◀◀ or ▶▶ press button

To Continue, release the finger to confirm the time display of the part you want to listen to (high-speed search). ▶▶ **press the button on the remote control.**

◀◀ Or ▶▶ You may search start after pressing the button to, take up to 10 seconds.

on display button
on remote (RC-601)
amplifier remote (RC-613S)

1 choose the "random" mode

remote control that came with this device (RC-601)
press repeatedly YES / MODE button during stop until will displays the "RDM" on the display unit.
A-933 amplifier RC-613S remote control
press repeatedly YES / MODE button during stop, until will displays the "RDM" on the display unit.

YES MODE button
remote (RC-601)
amplifier remote (RC-613S)

2 press the button

Random play begins.
To return to normal playback from random play mode

- If the RC-601 and Device, press button on the display unit [NORMAL] 表 Press the YES / MODE button until you get end
- RC-613S on remote, press this button, and in P MODE button "NORMAL" indicator will appear on the display

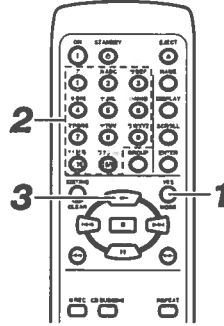
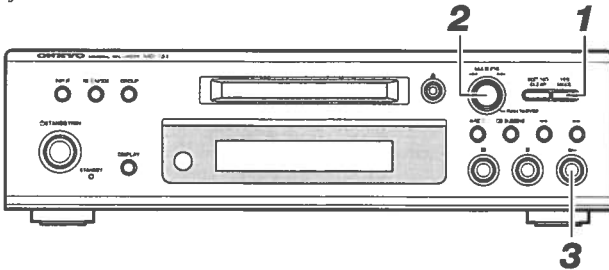
important
in Random play mode Or button STANDBY/ON will reset by pressing this button.

play button
on display
on remote (RC-601)
amplifier remote (RC-613S)

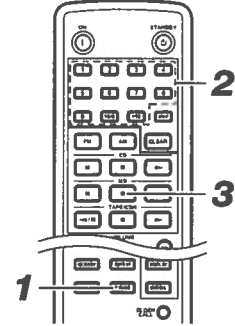
Listen to MD Audio files

Make a reservation playback (Memory playback)

You can book up to 25 tracks. You can play in the order by selecting a song you want to listen



supplied with,
remote
(RC-601)



A-933 (amplifier)
remote control
(RC-613S)

1

choose the "Memory" mode



リモコン
(RC-601)



リモコン
(RC-613S)

Panel operation :
press repeatedly YES / MODE button during stop
[MEM]



remote (RC-601) YES/MODE.

A-933system , remote RC-613S) の
場合 :
プレイ モード [MEM]

2. MULTI JOG Turn the MULTI JOG dial to the desired track then press the MULTI JOG dial, repeat for each track.

2

using multijog



本体



リモコン
(RC-601)



リモコン
(RC-613S)

Turn the MULTI JOG dial to the desired track then press the MULTI JOG dial



repeat for each track.
-Using remote enter the track number using the number keys

To program songs within Groups:
。グループ
1.GROUP
Press GROUP button

3

プレイ
▶ play button



unit



リモコン
(RC-601)

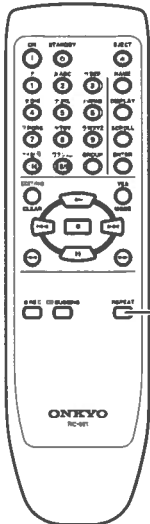


リモコン
(RC-613S)

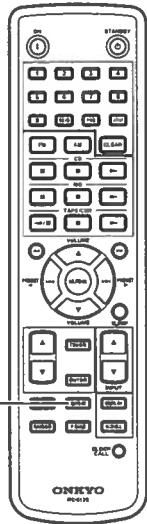
Press PLAY to begin memory playback.
-To stop Memory playback press YES/MODE button until "NORMAL" displays
-To clear individual programmed tracks press EDIT/NO CLEAR button while playback is stopped. Tracks will be deleted from memory one at a time from the last track programmed

listen to MD continued

REPEAT PLAYBACK

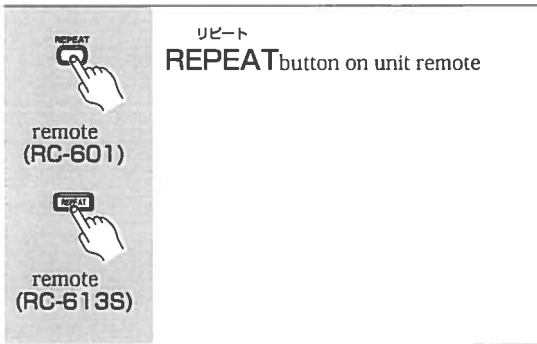


md133
remote
(RC-601)

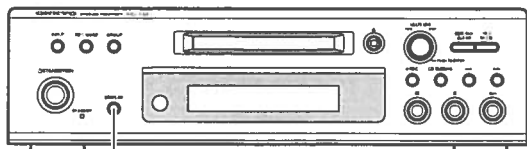


A-933(system,
remote
(RC-613S)

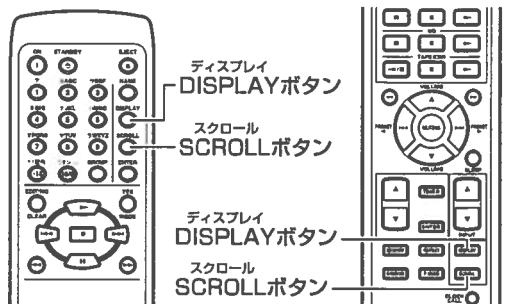
1. To repeat all tracks press the REPEAT button on the remote
 2. To repeat one track, press REPEAT button twice while the track is playing
- While in memory playback mode pressing REPEAT will repeat only the memory songs in the order they were programmed.
 - While in random playback the songs will repeat each time in a different random order
 - You can not repeat one track in memory or random mode



DISPLAY DISC INFORMATION



ディスプレイ
DISPLAYbutton

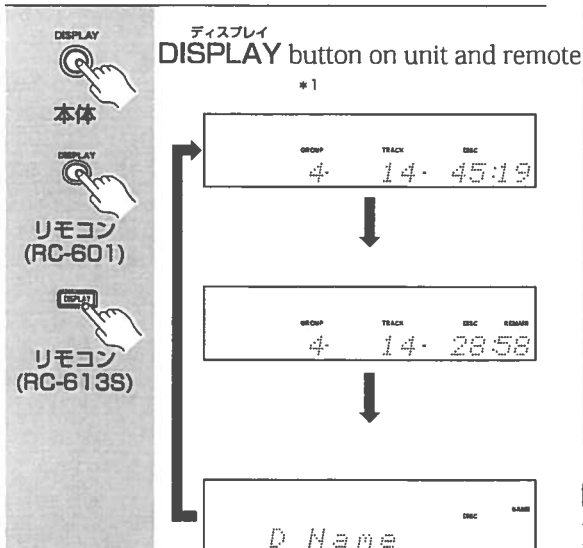


本機に付属の
リモコン
(RC-601)

A-933(アンプ)
に付属のリモコン
(RC-613S)

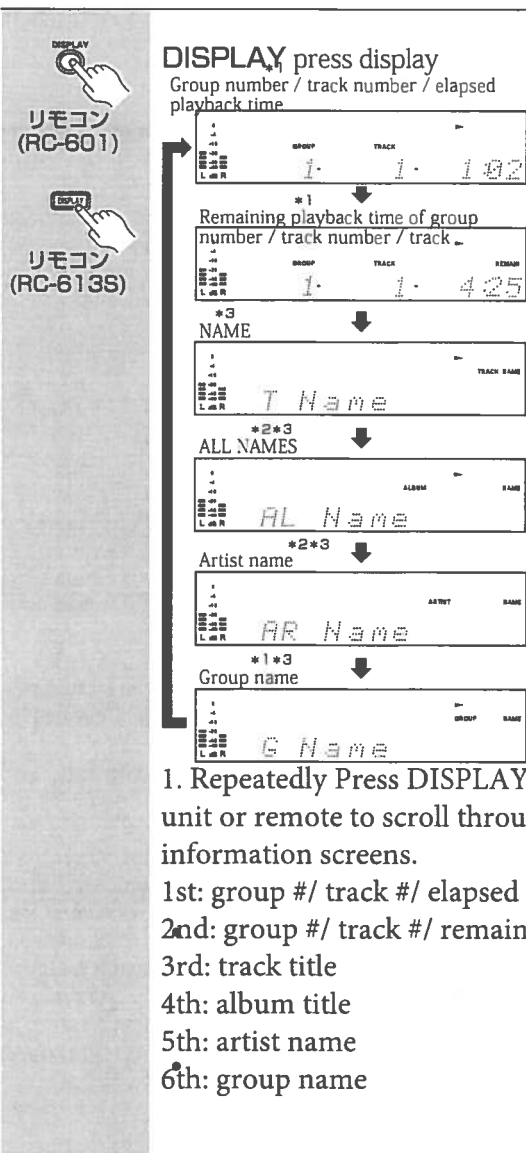
While Play Back is Stopped

1. Repeatedly Press DISPLAY on the main unit or remote to scroll through the information screens



- 1st: # of groups/ # of tracks/ total time
- 2nd: # of groups/ # of tracks/ recordable time
- 3rd: Disc name

During Playback



DISPLAY press display
Group number / track number / elapsed playback time

- 1. Group number / track number / elapsed playback time
- 2. Remaining playback time of group number / track number / track
- 3. Track title
- 4. album title
- 5. artist name
- 6. group name

1. Repeatedly Press DISPLAY on the main unit or remote to scroll through the information screens.

- 1st: group #/ track #/ elapsed time
- 2nd: group #/ track #/ remaining time
- 3rd: track title
- 4th: album title
- 5th: artist name
- 6th: group name

! TIPS

For long track names press the SCROLL button on the remote to show all the text info. While the text is scrolling press SCROLL again to stop the text and once more to start text moving again

Audio data compression

The digitally encoded audio signal on a MiniDisc has traditionally been data-compressed using the ATRAC format (Adaptive Transform Acoustic Coding). This is in fact a 'psychoacoustic' data reduction system. It omits some of the musical content. It is claimed by Sony that the content that is omitted is inaudible anyway. Some original sounds have been known to defeat ATRAC which introduces (typically) a crackle or whistle onto the data stream.

ATRAC was devised for MiniDisc so that the same amount of audio a CD can carry can fit on a disc far smaller than the CD (which contains uncompressed 16-bit stereo linear PCM audio). ATRAC reduces the 1.4 Mbit/s of a CD to a 292 kbit/s data stream, roughly a 5:1 reduction.

Hi-MD-MD-mdlp

Recording modes[edit source | editbeta]

Modes are available for recordings made on the player. Capacities are official Sony figures; real world figures are usually slightly higher. Second generation Hi-MD players also support MP3 compression natively, in a multitude of bitrates. Recently, 352 kbit/s and 192 kbit/s ATRAC3plus have also been made available for 1st and 2nd generation Hi-MDs.

Name	Bitrate (kbit/s)	Codec	Availability and capacity (min)			
Standard player	MDLP player	Hi-MD player				
80 minute disc	80 minute disc (HiMD formatted)		1 GB Hi-MD disc			
Stereo SP 292	ATRAC 80	80	80	n/a	n/a	
Mono SP 146	ATRAC 160	160	160	n/a	n/a	
LP2	ATRAC3 n/a	160	160	290	990	
-	ATRAC3 n/a	127	127	370	1250	
LP4	ATRAC3 n/a	320	320	590	1970	
-	ATRAC3plus	n/a	n/a	n/a	810	2700
Hi-LP	ATRAC3plus	n/a	n/a	n/a	610	2040
Hi-SP	ATRAC3plus	n/a	n/a	n/a	140	475
PCM	Linear PCM	n/a	n/a	n/a	28	94

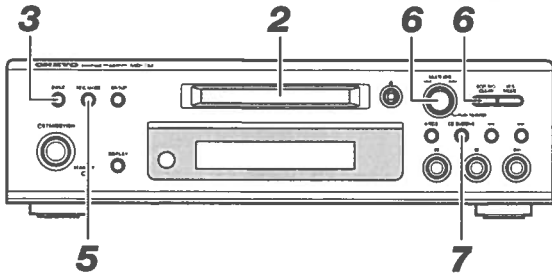
On Hi-MD media, these audio encodings can be created:

Encoding Mode	Recording capacity(1)	Created by ...				
305MB Hi-MD formatted Minidisc	1GB Hi-MD Media recording with Hi-MD equipment	downloading from PC to Hi-MD equipment				
Linear PCM 1.4mbps	28m	1h 34m	O yes	X no		
ATRAC3plus 256kbps "Hi-SP"		2h 20m	7h 55m	O yes	O yes	
ATRAC3plus 64kbps "Hi-LP"	10h 10m	34h	O yes	O yes		
ATRAC3plus 48kbps	13h 30m	45h	X no	O yes		
ATRAC3 132kbps "LP2"	4h 50m	16h 30m	X no	O yes		
ATRAC3 105kbps	6h 10m	20h 50m	X no	O yes		
ATRAC3 66kbps "LP4"	9h 50m	32h 50m	X no	O yes		
ATRAC 292kbps "SP"	Not supported on Hi-MD media					

Encoding Mode	Recording capacity(1)	Created by ...				
305MB Hi-MD formatted Minidisc	1GB Hi-MD Media recording with Hi-MD equipment	downloading from PC to Hi-MD equipment				
Linear PCM 1.4mbps	28m	1h 34m	O yes	X no		
ATRAC3plus 256kbps "Hi-SP"		2h 20m	7h 55m	O yes	O yes	
ATRAC3plus 64kbps "Hi-LP"	10h 10m	34h	O yes	O yes		
ATRAC3plus 48kbps	13h 30m	45h	X no	O yes		
ATRAC3 132kbps "LP2"	4h 50m	16h 30m	X no	O yes		
ATRAC3 105kbps	6h 10m	20h 50m	X no	O yes		
ATRAC3 66kbps "LP4"	9h 50m	32h 50m	X no	O yes		
ATRAC 292kbps "SP"	Not supported on Hi-MD media					

CD DUBBING

DUBBING A CD DIGITALLY (WITH AN INTEC-275 SERIES DIGITAL AMP/CD DECK)



ご注意

- You can only perform this operation if you have an INTEC-275 SERIES AMP or CD player.

1

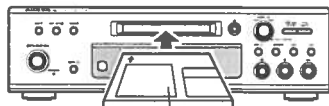
CD INSERT

SURFACE DOWN



2

Insert a recordable MD



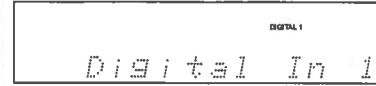
LABLE FRONT

3



デジタル イン
「Digital In 1」 DISPLAY

インプット
Press the INPUT button to until
"DIGITAL IN 1" displays



4

Confirm the MD disc mode
[MD/Hi-MD]

5



To choose the recording mode press the REC MODE button
MD Mode: Stereo (SP), Stereo (SP2), Mono, Stereo (SP4)
Hi-MD Mode: Hi-MD (SP), Hi-MD (LP), Hi-MD (PCM)

Stereo (SP) → Stereo (LP2)
↑ Mono ← Stereo (LP4)

HI-MD MODE

Hi-MD (SP) → Hi-MD (LP)
↑ Hi-MD (PCM) ↓



CD DUBBING CONTINUED

6

Choose CD dubbing mode
オン オフ

Turn FADE OUT MODE on or off.
With FADE OUT MODE on any song that does not get recorded completely will fade out rather than end abruptly.

1. Press EDIT/NO/CLEAR button then turn the MULTI JOG dial until "FADE DUB?" displays



[Fade Dub?] DISPLAYS

Fade Dub?

② ^{マルチ ジョグ} MULTI JOG USING
オフ

Press MULTI JOG dial

Off ÷ On?

③ ^{オン} To change mode to ON press MULTI JOG DIAL

④ To leave mode OFF press EDIT/NO/CLEAR button



7

^{ダビング} CD DUBBING BUTTON



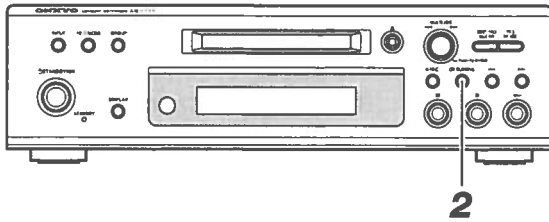
Press CD DUBBING button to begin recording
The unit will automatically search for the peak level on the CD and set recording levels accordingly. After that the unit will begin recording from the first track.

-To stop recording press the STOP button.

-During recording press the CD DUBBING button to review the current recording settings

**ONE TOUCH TRACK RECORDING
(WITH AN INTEC-275 SERIES DIGITAL
AMP/CD DECK)**

-You can only perform this operation if you have an
INTEC-275 SERIES AMP or
CD player.



1 Begin CD playback

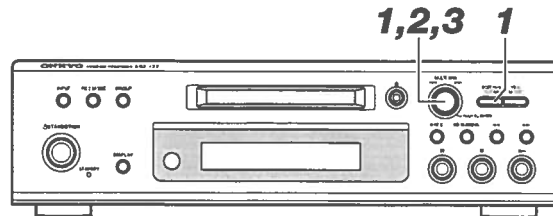
(CD BUTTON)

2 **ダビング**
PRESS **CD DUBBING**

Press the CD DUBBING button
-The current CD track will return to the beginning and recording will begin.

GROUP RECORDING

-Multiple tracks can be recorded in to a single group.
this mode is set to "On" as the default.



停止中

1 While playback is stopped press
EDIT/NO/CLEAR, then turn the
MULTI JOG
DIAL to display "Group Rec?"

Group Rec?

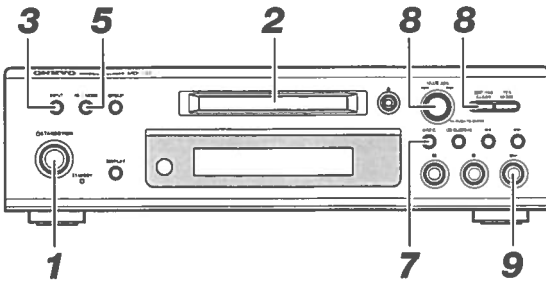
2 **マルチジョグ**
MULTI JOG **オフ**
Press the MULTI JOG DIAL
-If the displayed setting is "Off" the display will show "Off > On?"
-In the "On" mode all tracks will be recorded into one group until the "STOP" button is pressed.

Off > On?


3 3. Press the MULTI JOG DIAL to
save settings.
-To cancel this operation while in
progress press the EDIT/NO/
CLEAR button.

recording

RECORDING FROM AN ANALOG SOURCE




- 1**



Press STANDBY/ON button
- 2**

Insert a recordable MD
- 3**




Choose "Analog In" by pressing the INPUT button

ANALOG

Analog In
- 4**


Confirm MD mode
- 5**



Choose MD recording mode

- 6**

Begin playback on connected device
- 7**




Press REC button to put unit in record standby mode

110 ANALOG TRACK

GROUP TRACK 0:00


1. 1.
- 8**




Adjust recording level
Press EDIT/NO/CLEAR then turn MJD until "Rec Level?" displays

110 ANALOG

Rec Level?

 - 


② MULTI JOG Press the MJD
 - 

③ MULTI JOG Turn the MJD to adjust the recording level

110 ANALOG

+3.0dB

L R

-60.0dB to -30.0dB (adjustable in 5dB increments)
 -30.0dB to -12.5dB (adjustable in 2.5dB increments)
 -12.5dB to +18.0dB (adjustable in .5dB increments)
 - 

④ MULTI JOG PRESS
コンプリアート

110 ANALOG

Complete

Press MJD to set, "Complete" will display

9



9. Begin recording

-After pressing play on the MD Unit begin playback on the source of recording. While recording "TOC" will display. If you have the LEVEL SYNC function (page 33) ON then a new track mark will be created when there is no sound.

-To Make Track Marks Manually While Recording

Press the REC button at the point you want a track mark

-To Pause Recording

Press the PAUSE button, press PLAY to resume recording

-To Stop Recording

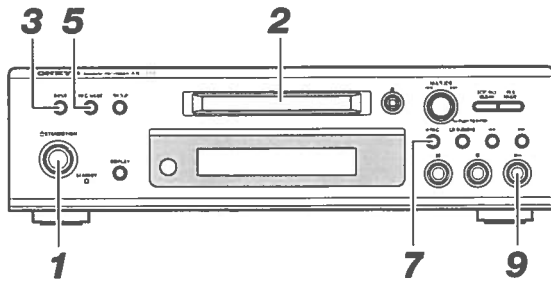
Press the STOP button

Do not turn off power or unplug the unit if TOC is displaying, the unit is writing the track information to the MD.


RECORDING

RECORDING FROM A DIGITAL SOURCE WITH AN OPTICAL AUDIO CABLE

This unit has a sampling rate converter so you can record CD (PCM 44.1 kHz) or other digital signals like DAT, etc. (PCM 32kHz or 48kHz)





1 Press STANDBY/ON button



2 Insert a recordable MD


3 [Digital In 1]
[Digital In 2]
Press the INPUT button to choose "Digital in 1" or "Digital In 2"

-If "D.In.Unlock" displays it means no digital cable is plugged in



4 Confirm MD mode

5 Choose MD recording mode
レック モード



6 Begin playback on connected device

7 Press REC button to put unit in record standby mode

8 Adjust recording level

1. Press EDIT/NO/CLEAR then turn MJD until "Rec Level?" displays
2. Press the MJD
3. Turn the MJD to adjust the recording level

- 60.0dB to -30.0dB (adjustable in 5dB increments)
- 30.0dB to -12.5dB (adjustable in 2.5dB increments)
- 12.5dB to +18.0dB (adjustable in .5dB increments)

9



BEGIN RECORDING

-After pressing play on the MD Unit begin playback on the source of recording.

While recording "TOC" will display.

-To Pause Recording

Press the PAUSE button, press PLAY to resume recording

-To Stop Recording

Press the STOP button

-Even if "Level Sync" is turned

off track marks will be made automatically during digital

recording. Some digital broadcasts do not have track mark information included in the signal but If you have the

LEVEL SYNC function

ON then a new track mark will be created when there is no sound.

Do not turn off power or unplug the unit if TOC is displaying, the unit is writing the

track information to the MD.

CD SYNCHRO RECORDING INTEC275-

You can only perform this operation if you have an INTEC-275 SERIES AMP or CD player.

1

Prepare for recording

2



Press REC button to put unit in record standby mode

3



Begin playback on the CD

-Press PLAY on the CD player only after "0:00" has displayed on the MD deck.

After pressing play on the CD player "Synchro Rec" will display.

-If recording levels are not correct please refer to page ABOVE





-To stop recording press STOP on the CD player.

ボース

RECORDING




SYNCHRO RECORDING FROM A TAPE DECK

-You can only perform this operation if you have an
INTEC-275 SERIES AMP or
TAPE DECK.

<p>1</p> 	<p>Press input button to select "Analog In"</p>
<p>2</p>	<p>Confirm MD mode</p>
<p>3</p> 	<p>レック モード Choose MD recording mode</p>
<p>4</p> 	<p>●REC Press REC button to put unit in record standby mode</p>
<p>5</p>  <p>(テープデッキ)</p>	<p>Begin playback on tape deck -If recording levels are not correct please refer to page ABOVE -To stop recording press STOP on the tape deck</p>

SIGNAL SYNCHRO RECORDING


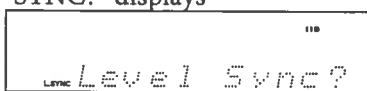

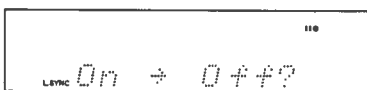

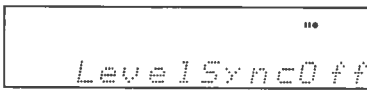
-You can perform synchro recording using other brands of portable MD player OR OTHER EQUIVALENT

<p>1</p> 	<p>Press INPUT to choose the correct input source</p>
<p>2</p>	<p>Confirm MD mode</p>
<p>3</p> 	<p>Choose MD recording mode</p>
<p>4</p> 	<p>Press REC button, after "0:00" displays press REC button again. "Signal Rec" will display, the unit will be standby mode waiting for the signal from the attached device, "Signal Wait" and the time display will flash.</p>
<p>5</p>	<p>Recording begins -Recording will begin when the signal from the attached source enters the unit -If recording levels are not correct please refer to page ABOVE</p>

LEVEL SYNCH FUNCTION

-Level Synch function creates track marks when silence is detected during recording. If recording digitally from a CD track marks will be created regardless of the having Level Synch on or off. It is set to on by default.

■ TO TURN LEVEL SYNCH OFF

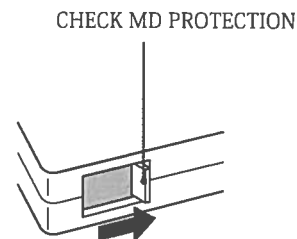
<p>1</p> 	<p>Press EDIT/NO/CLEAR button then turn the MULTI JOG DIAL until "LEVEL SYNC?" displays</p> 
<p>2</p> 	<p>MULTI JOG Press the MJD. The current setting will display.</p> 
<p>3</p> 	<p>MULTI JOG</p>  <p>Press the MJD. "Level SyncOff" will display.</p> <ul style="list-style-type: none"> - To enter a track mark manually press REC button during recording - TO quit this operation press EDIT/NO/CLEAR button - TO turn Level Synch ON follow the same steps as above

RECORDING AUTO STOP

-This function will stop recording after one minute of silence. This function is part of LEVEL SYNCH so to turn RECORDING AUTO STOP off you must turn off LEVEL SYNCH and vice-versa.

-A CD that has over minute of silence will also be affected by this mode so please be careful.

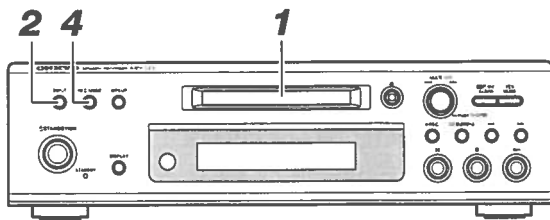
-When Dubbing a CD digitally (with an INTEC125 deck) the AUTO STOP will not affect recording.



TIMER PLAYBACK AND RECORDING

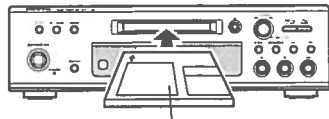
TIMER PLAYBACK AND RECORDING

You can only perform this operation if you have an INTEC-275 SERIES AMP and TUNER.



1

Insert playback/recordable MD



2



For recording press INPUT button to choose "Analog In"

3

For recording confirm MD mode

4



For recording choose MD recording mode

レック モード

5

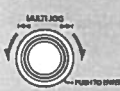


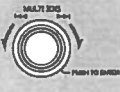

Set the timer on the TUNER

GROUP FUNCTIONS

SETTING GROUPS

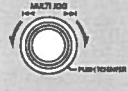
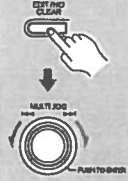



-Stop Playback

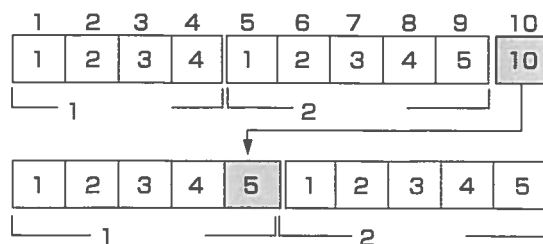
-Follow these instructions for putting tracks that are currently not in a group in a new group.

<p>1</p> 	<p>Turn the MULTI JOG DIAL to choose the first track to go into the group</p>
<p>2</p> 	<p>Press EDIT/NO/CLEAR button then turn the MULTI JOG DIAL until "OOTR G. Set?" displays</p>
<p>3</p> 	<p>Press the MJD</p>
<p>4</p> 	<p>Turn the MULTI JOG DIAL to choose the last track to go into the group</p> <div data-bbox="395 1563 766 1653" style="border: 1px solid black; padding: 5px; text-align: right;"> <p>17-81?</p> </div>
<p>5</p> 	<p>Press the MJD, "Complete" will display</p>

ADDING TRACKS TO A GROUP

-Follow these instructions to put tracks that are currently not in a group in an existing group.


<p>1</p> 	<p>Turn the MULTI JOG DIAL to choose the track to go into the group</p>
<p>2</p> 	<p>Press EDIT/NO/CLEAR button then turn the MULTI JOG DIAL until "OOTR G. In?" displays</p> <div data-bbox="973 795 1348 884" style="border: 1px solid black; padding: 5px; text-align: right;"> <p>147 G. In?</p> </div>
<p>3</p> 	<p>MULTI JOG Press the MJD</p>
<p>4</p> 	<p>MULTI JOG Turn the MULTI JOG DIAL to choose the group the track will go into</p> <div data-bbox="973 1265 1348 1310" style="border: 1px solid black; padding: 5px; text-align: right;"> <p>147 → 1G?</p> </div>
<p>5</p> 	<p>MULTI JOG [Press the MJD, "Complete" will display</p> <div data-bbox="973 1467 1093 1512" style="background-color: black; width: 75px; height: 20px; margin: 10px auto;"></div>



REMOVING TRACKS TO A GROUP


Follow these instructions to remove tracks that are currently in a group

1

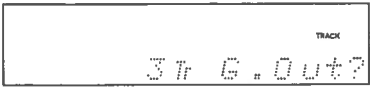


マルチ ジョグ
MULTI JOG Turn the MULTI JOG DIAL to choose the track to remove from the group


2



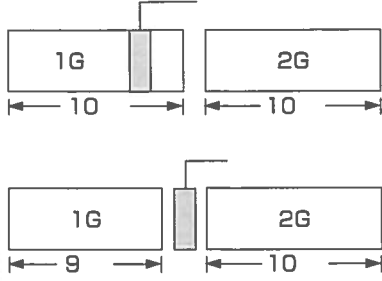
Press EDIT/NO/CLEAR button then turn the MULTI JOG DIAL until "OOTR G. Out?" displays



3




Press the MJD, "Complete" will display




REMOVING A GROUP (NO TRACKS WILL BE ERASED)

1




Press GROUP button


2




Turn the MULTI JOG DIAL to choose the group to release




3



Press EDIT/NO/CLEAR button then turn the MULTI JOG DIAL until "OO Release?" displays

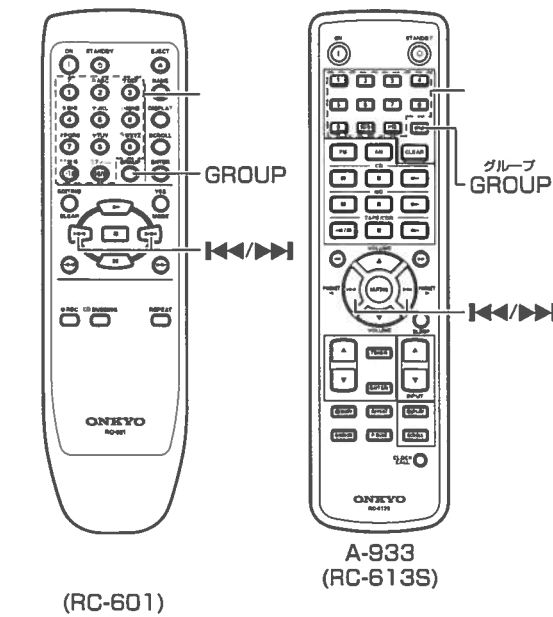
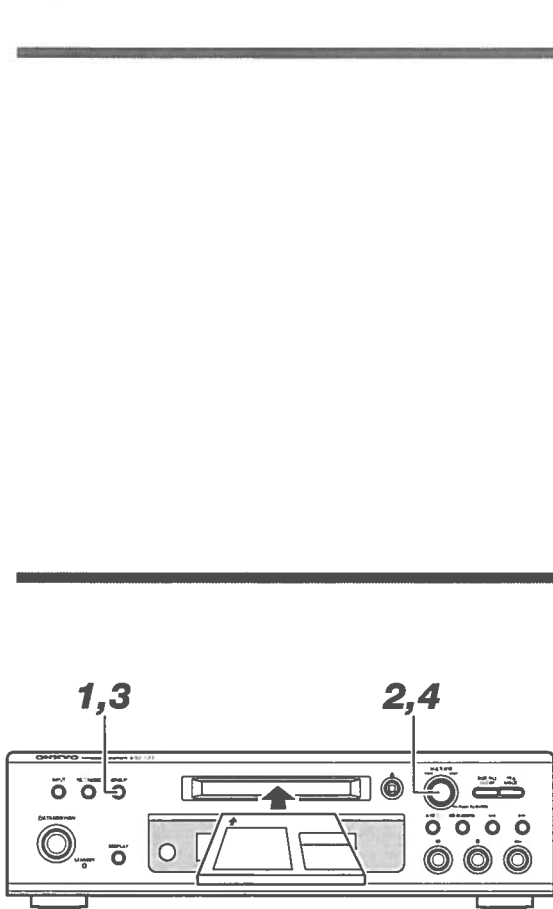


4



Press the MJD, "Complete" will display

CHOOSING ONE TRACK FROM WITHIN A GROUP FOR PLAYBACK



1



グループ
Press GROUP button



2



Turn the MULTI JOG DIAL to choose the group number

◀◀/▶▶ Or, use the arrow keys on the remote

3



Press GROUP button

4



Turn the MULTI JOG DIAL to choose the track number

◀◀/▶▶ Or, use the arrow keys on the remote

REMOTE

You can also use the number keys on the remote to choose the group/track number (see page 19)



: 25







: 125









GROUP PLAYBACK

-Playing all tracks in a group

1	<p>Press GROUP button</p> 	
2	<p>Turn the MULTI JOG DIAL to choose the group number.</p> 	<p>Or, use the number keys on the remote</p>
3	<p>Press the MJD to begin playback, or press GROUP on the remote</p> 	<p>グループ</p>



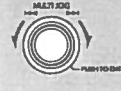
PLAYING BACK ONE GROUP

-Playback only one group

1	<p>GROUP Press GROUP button</p> 	
2	<p>MULTI JOG Turn the MULTI JOG DIAL to choose the group number</p> 	
3	<p>イエス モード Press YES/MODE button to choose "1GR" mode</p> 	
4	<p>Press the MJD to begin playback.</p> 	<p>• • •</p> <p>◀◀ or use the remote GROUP and arrow keys フレイ</p>

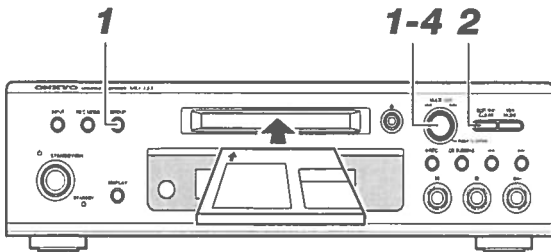
GROUP SKIP

-Skip through groups while in playback mode.

1	<p>1. While in playback press GROUP button</p> 	
2	<p>MULTI JOG</p> <p>Turn the MULTI JOG DIAL to choose the group number</p> <p>remote</p> <p>Or, use the GROUP and arrow keys on the remote</p> 	

ERASE ALL TRACKS IN A GROUP

-Stop Playback



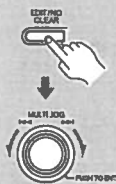
1



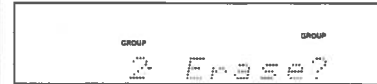
グループ **マルチ**
Press GROUP button, Turn the MULTI JOG DIAL to choose the number of the group to be erased



2



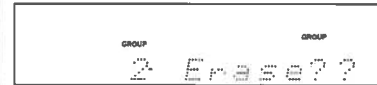
エディット **ノー** **クリア**
Press EDIT/NO/CLEAR button then turn the MULTI JOG DIAL until "Erase?" displays



3



MULTI JOG



Press the MJD, to reconfirm "Erase?" will display again

4



MULTI JOG

Press the MJD again, this will complete the erasure and "Complete" will display



!ヒント

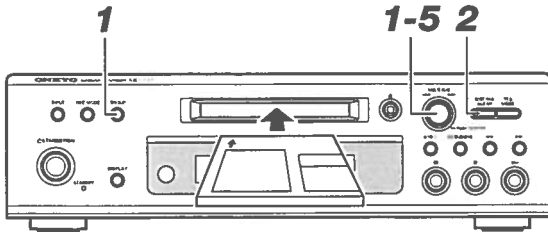
グループ
You can also do this with the GROUP, **エンター** arrow keys and EDIT/NO/CLEAR button on the remote

MOVE A GROUP

-Stop Playback

送

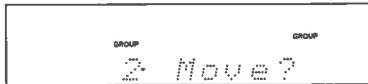
ストップ



1 Press GROUP button, Turn the MULTI JOG DIAL to choose the number of the group to be moved



2 Press EDIT/NO/CLEAR button then turn the MULTI JOG DIAL until "Move?" displays



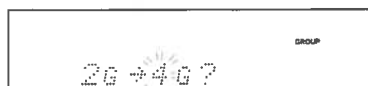
MULTI JOG



3 Press the MJD, the group number will display with the position the group is going to be moved to, ex. "2G>1G"



4 If necessary turn the MJD to change the group number that the selected group will be moved to



5



MULTI JOG Press the MJD

-The track will be moved and "Complete" will display



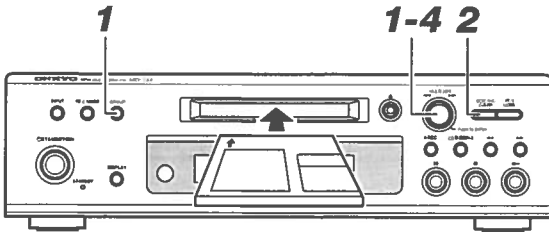
remote

グループ



You can also do this with the GROUP, EDIT/NO/CLEAR and ENTER buttons on the remote

COMBINE GROUPS



1



GROUP button, Turn the MULTI JOG DIAL to choose the number of the group to be combined

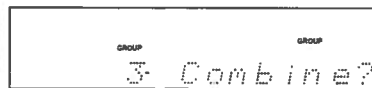


-The group you choose will be combined with the group coming before it. The first group therefore cannot be combined.

2



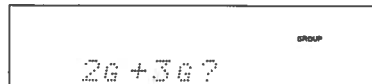
Press EDIT/NO/CLEAR button then turn the MULTI JOG DIAL until "Combine?" displays



3



MULTI JOG Press the MJD



4



Press the MJD, the groups will be combined and "Complete" will display
-You can also do this with the GROUP, arrow keys, EDIT/NO/CLEAR and ENTER buttons on the remote



remote

エンター

TRACK EDITING

ERASE ALL TRACKS

Editing functions cannot be performed on discs set to prevent accidental erasure (write protected), and "Protected!" will be displayed when accessing the EDIT sub-menu of the MD menu.

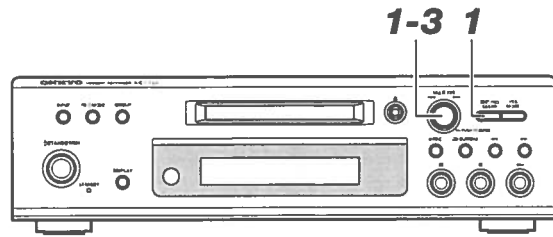
Tracks and points for editing

For most editing menu options, if the deck is not in play or in playback standby mode at the track or point to be edited, the option itself cannot be selected, and "Can't Edit!" will be displayed. These are options for editing functions to be performed on tracks or points, including DIVIDE, COMBINE and MOVE. The ERASE TRK option is called up before the track has been selected.

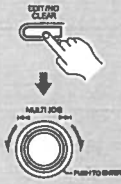
NOTE

After editing operations have been completed, with the MD still inserted and "TOC" lit up on the display, if the power is turned off, the revised U-TOC will not be written on the disc, and the editing operation will not be retained on the disc.

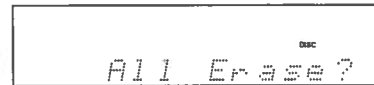
-Stop Playback.



1



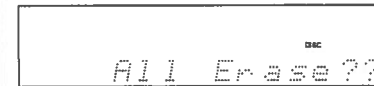
Press EDIT/NO/CLEAR button then turn the MULTI JOG DIAL until "All Erase?" displays



2



MULTI JOG



Press the MJD, to reconfirm "Erase?" will display again

3



Press the MJD, tracks will be erased and "Complete" will display

remote

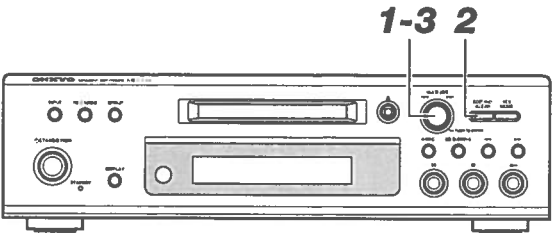


-You can also do this with the arrow keys, EDIT/NO/CLEAR and ENTER buttons on the remote

ERASE ONE TRACK

ERASE ONE TRACK

-Can be done when playback is stopped or paused

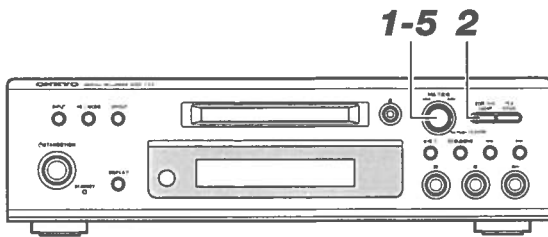


1 	Turn the MULTI JOG DIAL to choose the number of the track to be erased																								
2 	エディット ノー クリア Press EDIT/NO/CLEAR button then turn the MULTI JOG DIAL until "Erase?" displays <div style="border: 1px solid black; padding: 5px; text-align: center; margin-top: 10px;"> TRACK 2 Erase? </div>																								
3 	Press the MJD, <small>コンプリート</small> tracks will be erased and "Complete" will display <div style="margin-top: 10px;"> <table style="border-collapse: collapse; text-align: center;"> <tr> <td style="border: 1px solid black; padding: 2px 10px;">1</td> <td style="border: 1px solid black; background-color: #cccccc; padding: 2px 10px;">2</td> <td style="border: 1px solid black; padding: 2px 10px;">3</td> <td style="border: 1px solid black; padding: 2px 10px;">4</td> </tr> <tr> <td colspan="4" style="text-align: center;">↓</td> </tr> <tr> <td style="border: 1px solid black; padding: 2px 10px;">1</td> <td style="border: 1px solid black; background-color: #cccccc; padding: 2px 10px;">3</td> <td style="border: 1px solid black; background-color: #cccccc; padding: 2px 10px;">4</td> <td></td> </tr> <tr> <td colspan="4" style="text-align: center;">↓ ↓</td> </tr> <tr> <td colspan="4">AFTER</td> </tr> <tr> <td style="border: 1px solid black; padding: 2px 10px;">1</td> <td style="border: 1px solid black; background-color: #cccccc; padding: 2px 10px;">2</td> <td style="border: 1px solid black; background-color: #cccccc; padding: 2px 10px;">3</td> <td></td> </tr> </table> </div> <div style="margin-top: 10px;"> <p>!ヒント</p> <p> <small>エンター</small></p> <p>You can also do this with the arrow keys, EDIT/NO/CLEAR and ENTER buttons on the remote</p> </div>	1	2	3	4	↓				1	3	4		↓ ↓				AFTER				1	2	3	
1	2	3	4																						
↓																									
1	3	4																							
↓ ↓																									
AFTER																									
1	2	3																							

MOVE A TRACK

MOVE A TRACK

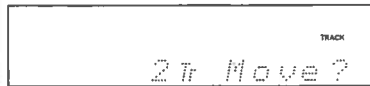
- Can be done when playback is stopped or paused
- You can move tracks within the same group
- You can move a track not in a group into a group
- You cannot move a track from one group to another group



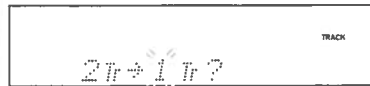
1 Turn the MULTI JOG DIAL to choose the track to be moved



2 エディット ノー クリア
Press EDIT/NO/CLEAR button then turn the MULTI JOG DIAL until "Move?" displays



3 MULTI JOG



Press the MJD



4 If necessary turn the MJD to change the track number that the selected track will be moved to



5 MULTI JOG

Press the MJD, track will be moved and "Complete" will display

曲の移動



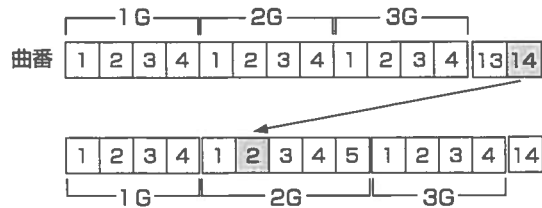
曲番のふり直し



! ヒント



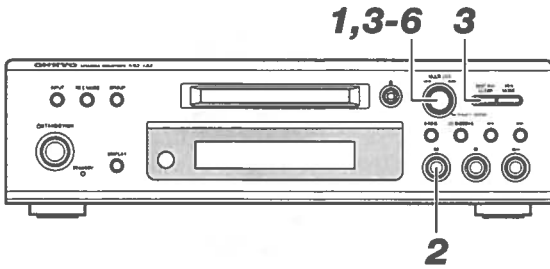
-You can also do this with the arrow keys, EDIT/NO/CLEAR and ENTER buttons on the remote



DIVIDE A TRACK

DIVIDE A TRACK

- -Can be done when playback is stopped or paused
-



1 Turn the MULTI JOG DIAL to choose the track and begin playback

2 **||** ポーズ
Press PAUSE at the point you want to divide

3 エディット ノー クリア
Press EDIT/NO/CLEAR button then turn the MULTI JOG DIAL until "Divide?" displays

TRACK
27 Divide?

4 **MULTI JOG**

リハーサル ポジション

Press the MJD, "Rehearsal" and "Position OK?" will display, about 4 seconds before the divide point the audio will repeat in a loop.

5

While listening to the playback you can adjust the divide point from -45 to +45 steps by turning the MJD

リハーサル
Rehearsal

6 **MULTI JOG** コンプリート
Press the MJD to complete the divide, "Complete" will display.

1

2

3

4

↓

1

2

3

4

5

1

2

3

4

5

remote

You can also do this with the arrow keys, EDIT/NO/CLEAR and ENTER buttons on the remote

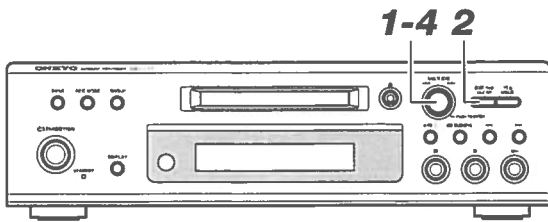
◀◀▶▶
▶▶▶▶
エンター



COMBINING TRACKS

COMBINING TRACKS

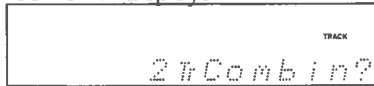
- -Can be done when playback is stopped or paused
-



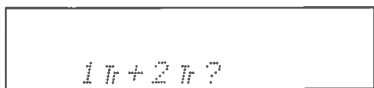
1 マルチ ジョグ
MULTI JOG
Turn the MULTI JOG DIAL to choose the track to be combined.
-The track you choose will be combined with the track coming before it. The first track therefore cannot be combined.



2 エディット ノー クリア
Press EDIT/NO/CLEAR button then turn the MULTI JOG DIAL until "Combin?" displays



3 Press the MJD, the display will show the tracks to be combined

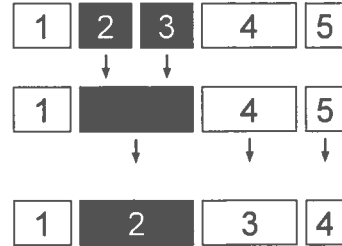


4



MULTI JOG

Press the MJD to combine, "Complete" will display



remote



エンター
You can also do this with the arrow keys, EDIT/NO/CLEAR and ENTER buttons on the remote

note

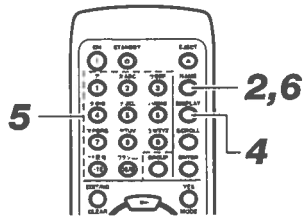
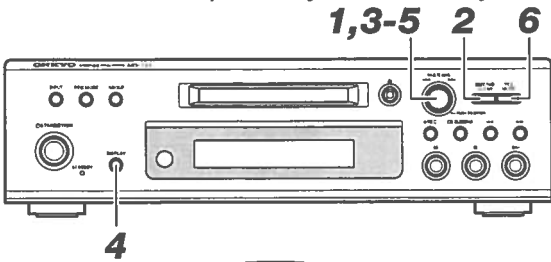
- You can not combine some tracks under 48-12 seconds,



ADDING TRACK AND DISC NAMES

ADDING TRACK AND DISC NAMES

You can add track names while recording or playing back but if the track changes before the title is complete it may not save correctly



- You cannot add group names during recording

1



- **ADD DISC NAME**
-Press STOP so that no individual track is selected
- **ADD TRACK NAME**

○ -Press STOP and turn the MJD to select the track to be named
-During playback/recording press the DISPLAY button until "TRACK NAME" displays.

ADD A GROUP NAME

-Press STOP and then the GROUP button, turn the MJD to select the group to be named. During playback press the DISPLAY button to display "Group Name" IN Hi-MD MODE

Press STOP, or, during playback/recording press DISPLAY to display "Artist Name" or "Track Name"



2



Press EDIT/NO/CLEAR button and turn the MJD to display "Name In?"
-To cancel this operation press STOP

3



MULTI JOG



Press the MJD, the cursor will blink

CHARCTERS INPUT

4



リモコン
(RC-601)

Choose the type of characters to enter Press the DISPLAY button repeatedly to view the types of character types (press SCROLL to reverse the order)

There are five types of characters: English alphabet upper case, "A", English alphabet lower case, "a", Numbers, "1", Japanese Katakana "ア", and Easy Name, " displayed as a musical note".

-For a list of what characters are available in each group see chart



characters YOU CAN USE

ABCDEFGHIJKLMNOPQRSTUVWXYZ

abcdefghijklmnopqrstuvwxyz

0123456789

_ @ ` < > # \$ % & * = ; : + - / () ? ! ' " . . . (空白) (挿入)

アイウエオカキクケコサシスセンタチツテトナニヌネノハヒフヘホマミムメモ
ヤユヨラリルレロワラン

アイウエオヤユヨツ *



5



REMOTE
(RC-601)

Enter name

-Turn the MJD to choose the desired character then press the MJD to enter that character

-TO change character type follow steps above

-TO enter characters with the remote use the number keys and their associated characters. You can also use the /<<, >>/ keys to choose characters and the ENTER or >> button to enter the character

-To correct a character : use the << >> buttons to highlight the character and then enter the correct one

To insert a character: use the << >> buttons to highlight point of insertion, next turn the MJD to the right to create a space to enter the new character.

To erase a character: use the << >> buttons to highlight the character to be erased. Then press the EDIT/NO/CLEAR button

6



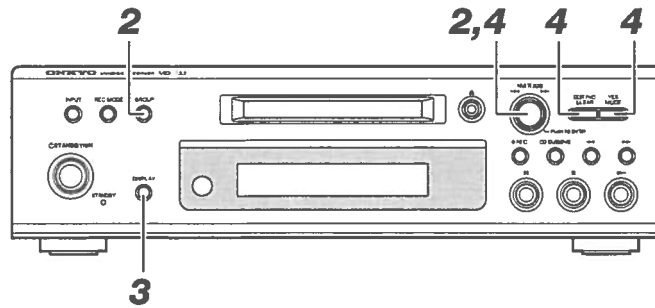
REMOTE
(RC-601)

To complete entry press the YES/MODE button or on the remote press NAME

EDITING

TO ADD THE SAME NAME TO ANOTHER DISC, TRACK, GROUP, ARTIST OR ALBUM

Follow the instructions beginning on page 47 for naming



1

Follow the instructions beginning on page 47 for naming

2



Turn the MULTI JOG DIAL to choose the track or press the GROUP button to choose the group you want to add the same name to

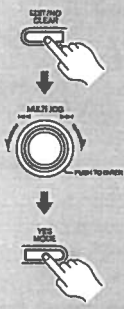
3



Press the DISPLAY button to choose which name you want, the following will display: DISC NAME, TRACK NAME, GROUP NAME, ARTIST NAME, ALBUM NAME

EDITING

4



エディット ノー クリア

名前 コピー

Press EDIT/NO/CLEAR button and turn the MJR to display "Name Copy?"
Then press the YES/MODE button
--You can also do this with the DISPLAY, arrow keys, EDIT/NO/CLEAR and ENTER buttons on the remote

エンター

FORMAT A DISC

- Format a disc in order to use a standard 80/74/60 minute MD in Hi-MD mode, or to return a Hi-MD disc to standard mode.
- Hi-MD 1 GB discs do not need to be formatted
- All data on a disc will be erased if formatted



4



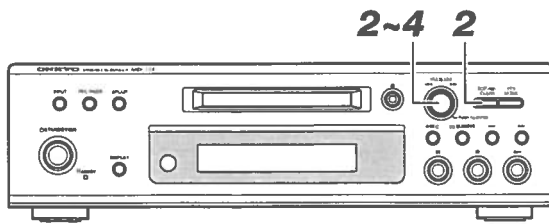
MULTI JOGダイヤルを押す

「Format OK?」と表示され、フォーマットが始まります。

When the MD mode, the disk becomes MD mode. Unless degree initialization, it is not a Hi-MD mode.

- When you Hi-MD mode, the disk Na in Hi-MD mode Ri, as long as you do not initialize again, it is not an MD mode. Or
- You can not have, that to play in Hi-MD non-compatible devices.

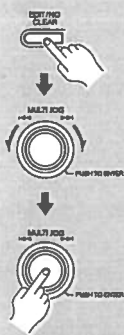
エンター



1

Insert the MD to be formatted

2



Press EDIT/NO/CLEAR button and turn the MJD to display "Disc Format?" Then press the MJD



3



Turn the MJD to choose either "MD Format?" or "Hi-MD Format?"

Press the MJD, "Format Ok?" will display and formatting will begin
 --You can also do this with the arrow keys, EDIT/NO/CLEAR and ENTER buttons on the remote

MD Recording cautions

To eject the disc from the deck, press the **EJECT** key during stop mode.

NOT

When "UTOC Writing!" is flashing on the display, data on the recorded contents is being written onto the disc.

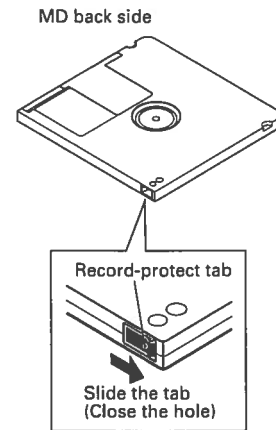
During this process, if the power cord is unplugged from the power source, or the unit is moved or disturbed, this essential data cannot be correctly recorded on the disc.

Recording cautions

When "Protected!" is displayed

The inserted MD cannot be recorded, or a playback-only MD was inserted.

Close the write protect tab to enable recording.



MD About

Hi-MD About

This is the new format of the mini disk and Hi-MD.

Minidisk from traditional, to change the recording method of the disk, enabling the recording of a longer time.

We have made it possible for a long time by recording ATRAC3Plus to further development of the audio compression technology ATRAC3 traditional. Whereas it was 1/10 of the CD, the compression ratio of (LP2/LP4 of the unit) ATRAC3 is, when compared based on the CD (Hi-SP/Hi-LP stereo mode of the unit) ATRAC3plus the past, This is high sound quality and high compression ratio of 1/20.

MD mode and Hi-MD mode

There are two modes of operation for the "Hi-MD mode" and "MD mode" to the unit. This mode of operation is switched automatically by the inserted disc.

When the "Hi-MD mode", I can record for a long time than ever before. In addition, you can also record sound quality the same as the CD in linear PCM (voice recording system not digital compression).

Recording time

action mode	Record mode	Codec	Type of disk			
			Hi-MD Standard 1GB	80min	74min	60min
Hi-MD mode	PCM	linearPCM /1.4Mbps	about 1h 34min	About 28 min	About 26 min	About 20 min
	Hi-SP	ATRAC3plus /256kbps	About 7m55 min	about 2h20m	about 2h10m	about 1h45m
	Hi-LP	ATRAC3plus /64kbps	About 34 hours	About 10 h10 min	About 9h25min	About 7h25min
MD mode	SP	ATRAC /292kbps	You can not record in MD mode.	80min	74min	60min
	LP2	ATRAC3 /132kbps		About 2h40min	About 2h28min	About 2h
	LP4	ATRAC3 /66kbps		About 5h20min	About 4h56min	About 4h
	MONO			About 2h40min	About 2h28min	About 2h

Number of tracks / number of groups / number of input characters

mode	Type of disk	Max tracks	max groups	max characters
Hi-MD	Hi-MD 1GB	2047	255	約55,000文字
	80	2047	255	約55,000文字
MD	80分	254	99	約1,700文字

MD troubleshooting

Constraints on the system of MD

MD (mini disk) system is done recordings in a manner different from the DAT cassette and traditional. Therefore, there are restrictions on the system some, you might like symptoms get the following. Since these do not indicate a problem, Please note.

- Even if you have not reached the maximum recording time, "Disc Full" is displayed.
- The MD system, regardless of the time, the display of the "Disc Full" appears the number of songs is full. If you want to add more songs, you can either turn off the unnecessary song, please record is divided into two MD.
- On-off information such as emphasis has been done many song, it becomes handled in the same way as a separator of the song, regardless of the number of songs and time
[Disc Full] Display will appear.
- Depending on how the recording to the MD, the remaining time of the MD does not increase what song even turn off the short song.
- May not be able to connect the song.
The song has resulted from edits, may not be able to connect.
- Depending on how the recording and state of MD, is it also reduces the time or more remaining recording time is recorded.
- If you do a search in the music that I made in the editing, there is the sound is interrupted.
- May track numbers ... not exactly.
When recording a CD, by recording on the content of the CD, it may be a short song. In addition, if you have made the track marking automatically level sync on, depending on the content of what you want to record, you may track numbers ... not exactly.
- [Reading] View does not disappear easily.
If you put the recording disk that has not been used once, "Reading" will appear longer than normal.
- The though not reached the maximum number of input characters, and can not input characters.
Available number of characters will be less than this or use the group function, and when you enter japanese The information of group function, and writes in the area to write to the normal name.
- Therefore, area of writing the information is reduced when I put a lot of character, you may not be able to edit the group. In that case, you may be able to be group edit and reduce the number of characters in the name.

About MDLP and Hi-MD
Disc recorded in each mode, LP2, LP4 Hi-LP, Hi-SP, PCM can not be played on devices other than the, LP2, LP4 mode with Hi-LP, Hi-SP, PCM.

Messe - di-List

By the situation of use, a message is displayed.

Meaning is shown in the table below.

Message	reason
Audio Error	There is no audio signal from DIGITAL IN.
Blank Disc	A blank recordable MD disc has been inserted.
Cannot Copy	Write-protected MD disc, so recording or editing is not possible., look page 53.
Cannot Edit	Editing cannot be performed due to MD system limitations or editing condition limits.
Cannot Rec	system tried to record the read-only MD. An attempt was made to digital recording and CD-R that was recorded on digital.
CD Dub Fail	system could not start the CD dubbing.
Complete	Editing operation has been successfully completed.
Cannot Read	damage, abnormal TOC is contained No) MD is located.
Disc Full	No recording time remaining on the disc, so new recording is not possible.
D. In Unlock	The digital input is not connected. Turn on the power of the equipment connected to DIGITAL IN.
Error	It was a combination that can not be entered in the Kananemu input.
Full	No recording time remaining on the disc,
Impossible	MDI t was an impossible operation of editing because of system limitations other than.
Writing	table of contents data is being written to the disc.
Mecha Error	An error occurred in the MD mechanism. May be damaged, please contact your Onkyo repair window near you.
Memory Full	An attempt was made to memory beyond the 25 tracks.
Name Full	Disk name and Song Title contains reaches the maximum value.
No Change	There was no change in the name input.
No Disc	Without inserting a disc.
Protected	MD is in the non-recordable state.
Read Error	system could not read the disc correctly. Please cycle the disk.
Retry Error	Since the recording, there was also a number of scratches on the MD and vibration, can not be properly recorded and re-recorded continuously. Please replace the disk.
Recording	system have an operation that can not during recording.
Signal Wait	MD becomes signaled the wait state.
TOC Error	TOC data is not correct

When Can We Help You

Please check the contents of the following first. That it may be due to other equipment that is connected, please check in conjunction with reference to the owner's manual of the other equipment.

Power supply does not turn

Please make sure that you are not unplug it from the outlet. [16] page NOTE ! THIS IS 100 volt operation unit !

system does not accept the playback of the disc

- It is damaged disk, or dirty. Please replace (The "Read Error" message appears) and the new disk.

Can not play

- (Water droplets adhering to the inside) Moisture condensation has occurred. Remove the disc, please place for several hours until the moisture evaporates.
- Please insert to match the orientation of the arrow on the disk.
- Disk has nothing of recorded on it. To replace a disk that has been recorded ("Blank Disc" message appears)

System can not play in the MD player car stereo or portable MD disk that was recorded on the machine

- It is recorded in MDLP mode or Hi-MD mode. You can not play car MD player and portable MD on hand is not compatible with the MDLP or Hi-MD. "MD mode" operation of this machine, please be recorded in the "SP" recording mode. [Page 24]

Can not record / edit recording

- it is to write-protect a disk is incorrect . Hole back Set the write-protect tab on the disk (. " Protected " message appears) I close the .
- it is not properly connected to the instrument . Please re- connection .
- input setting of the unit is wrong . Please select the same input as the input signal to be recorded with the INPUT button . [28, 30] page
- recording level is too small . I will adjust the recording level . (See page 28)
- read-only disc is inserted . I swap the recording disk (. " Cannot Rec " message appears) .
- there is no remaining time of the disc . I swap the recording disk with enough time left . Or , unwanted songs Please turn off .
- audio optical digital cable is not connected . Audio optical digital cable (. " D. In unlock " message appears) Please connect correctly Bull . Or please set to analog input . [15, 28] page It is displayed as " Disc Full "
- No free recording to MD, please replace it with a new MD. It appears as " Retry Error "
- Remove the MD once , please re- recording again . If it appears frequently , please contact us to repair window . Recording stops automatically
- recording auto stop function is activated . It is possible to cancel the recording auto stop function . [Page 33] Group can be , when it recorded
- Setting of the group recording is turned "on" . , Please , change the setting to "Off" and " group recording" . [27] page Recording , noise is generated instantaneously
- In LP4 mode recording of MD mode , the characteristics of the compression method , noise momentary occur very rarely by the sound of the original recording To . Please try recording in LP2 mode or SP mode . Recording time and remaining recording time does not match the already recording time shown on the disc
- To record a certain range in the (time) unit is , by such as edit and delete repeated , and recording the recording place of disk You may between decreases . Reading Reading MD (Reading) is slow
- The Hi-MD, MD, correspondence , it takes about 60 seconds at most to read this unit . Name is not given
- name is not attached and has become memory , random , the 1GR playback mode . Please return to the normal playback mode . [20,21,38] page Become from 1Tr If you start recording Yet MD Aru to record some songs already
- because the group recording setting is on , you want to record by creating a new group whenever you start a recording , it is displayed as 1Tr. It does not become the group even though it has already been on the group recording setting
- Stop It does not take group when the specified track CD dubbing . In addition , when the synchronized recording , and its time you press the button . * MD Group will end with this . It would have been recorded by dividing the number of songs a lot of
- If you are recording radio , from the record may cause the number of tracks is attached a lot by detecting the silence . Raise the recording level Please OFF the level sync function if you do not also improved .

When Can We Help You

Track number is not attached

- When the number of the track does not stick silence is short .

I can not play in the player of the unit other than the MD that was recorded on the machine

- You can not play that it is not the MDLP compatible device MD, was recorded using the LP4 (MDLP mode) and LP2. The equipment you have Please make sure MDLP support . MD with a Hi-MD format when initializing the play is not the Hi-MD compatible devices Can not . Please make sure Hi-MD corresponding equipment you have .

I want to Hi-MD mode MD you have now

- I initialized to Hi-MD mode . Songs already recorded will be deleted . [52] page

You can not be playing and editing disk

- The disc that was recorded on the other equipment , you may not be able to edit or played back on this unit .

You can not edit the MD

- MD uses for recording , Please remove Slide the erasure protect tab recording disabled state . [53] page

- You can not edit has become memory , random , the 1GR playback mode . Please return to the normal playback mode .

[20,21,38] page

- You can not Combine song was analog recording songs and the digital recording (link) that . [42] page

- Also, you can not Combine songs recorded in the recording mode that is different from (link) thing . (Such as LP4 and LP2) [42] page

After recording , it was a power outage

If the TOC indicator lights up , became a power failure while the LED is flashing , the contents of the record before the power failure will be erased . The field was unplug the power cord by mistake

Case will also be erased.

Noise regular enters the AM broadcast recording

- I have put in the immediate vicinity of this unit the AM indoor antenna . Please release the AM indoor antenna from the unit .

Name input

I can not name input

- it is to write-protect a disk is incorrect . To close the hole back to the write-protect tab on the disk (. " Protected " message appears) .

- read-only disc is inserted . I swap the recording disk (. " Cannot Rec " message appears) .

System action

System does not work

- connection is incomplete . Please check the connection of each code . In addition , only connection of terminals not work as a system

Do . Please connect correctly audio pin code for each equipment .

- If it does not work properly with all of the treatment on , unplug the power plug , please power cycle the plug again .

Remote

Button on the work , but the button on the remote control does not work

- Please try to replace it with a new one with two batteries . [13] page

- between the remote and the player is too far? Are there any obstacles between the remote and the player ? [13] page

- (direct sunlight or inverter fluorescent lamp) or strong light does not hit the remote sensor [13] page

- Do not use the colored glass in the door of the audio rack , and you put a decorative film , may not function properly

You . [13] page

- If you want to use the included remote control (RC-613S) to A-933, it should be connected correctly cable , the audio pin code

Sure . [14] page

When combined with the A-933 (Amp)

No sound / system function does not work / remote control does not work

-

Main in

Please check MAIN IN function of A-933 is not working . Refer to the instruction manual for the A-933 for more information.

Other

Disk gets hot

- I may Depending on the operating state and the outside air temperature but the disk may become hot by this machine , but it is not a malfunction .

- This unit has a high degree function by micro computer , but noise and interference noise , or from the outside in rare cases

You may want to malfunction under the influence of static electricity was . In such a case , disconnect the power plug , and then left for about 10 seconds or more

Please connect the power plug from .

- or be covered by the warranty damage caused by that could not be recorded properly due to the failure of the product for the (CD rental fees, etc.)

Does not . When you need to record important , after confirmation , please record that will be recorded correctly.

specifications

Recording frequency	32kHz/44.1kHz/48kHz
Recording and playback time	44.1kHz
Total harmonic distortion	08 minutes up to 34 hours (Hi-MD disk use, Hi-LP mode is used)
Frequency characteristic	0.005% (1kHz)
Dynamic range	10Hz~20kHz/±0.5dB
SN ratio	94dB
Output voltage / impedance	100dB
power and voltage	2.0V (rms) /440Ω (アナログ出力)
Power consumption	AC100V, 50/60Hz NOTE ! Please check your country voltage!
Standby power	13W
The maximum Dimensions	0.1W
Mass	275 (幅) ×78 (高さ) ×310 (奥行き) mm
Allowable operating temperature / humidity	3.8kg 5℃~35℃/5%~85%

Design and specifications are subject to change without notice for performance improvement.