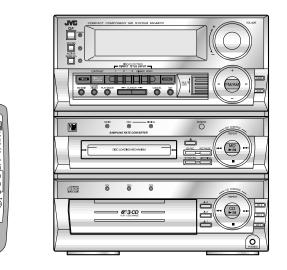




COMPACT COMPONENT MD SYSTEM SISTEMAS MD DE COMPONENTES COMPACTOS SISTEMA MD DE COMPONENTE COMPACTO 小型組合式微型磁碟系統

CA-MD70

000 000 000







/ INSTRUCTIONS MANUAL DE INSTRUCCIONES INSTRUÇÕES Foi 使用說明書

For Customer Use:

Enter below the Model No. and Serial No. which are located either on the rear, bottom or side of the cabinet. Retain this information for future reference.

Model No.

Serial No.

LVT0075-001B [U, UT, US, UB]

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Mains (AC) Line Instruction (not applicable for Europe, U.S.A., Canada, and U.K.)

Instrucción sobre la línea de la red (CA) (no aplicable para Europa, EE.UU., Canadá, ni el Grã-Bretanha)

Instrução sobre a tensão da rede eléctrica (CA) (não aplicável para a Europa, os E.U.A., o Canadá, e o Reino Unido)

主 (AC) 電源線路説明(不適用於歐洲、美國、加拿大及英國型號)

تعليمات التيار الرئيسي (المتردد) (لا ينطبق لاوروبا وامريكا وكندا والمملكة المتحدة)

IMPORTANT for mains (AC) line

BEFORE PLUGGING IN, do check that your mains (AC) line voltage corresponds with the position of the voltage selector switch provided on the outside of this equipment and, if different, reset the voltage selector switch, to prevent from a damage or risk of fire/electric shock.

IMPORTANTE para la línea de la red (CA)

ANTES DE ENCHUFAR EL EQUIPO, compruebe si la tensión de la línea de la red (CA) corresponde con la posición del selector de tensión situado en la parte exterior del equipo, y si es diferente, reajuste el selector de tensión para evitar el riesgo de incendios/ descargas eléctricas.

IMPORTANTE para a ligação à tensão da rede (CA)

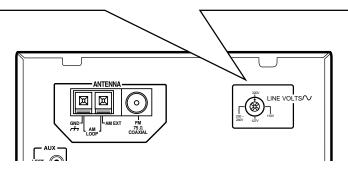
ANTES DE LIGAR O APARELHO A UMA TOMADA DA REDE, verifique se a tensão da rede CA corresponde à posição do seletor de voltagem localizado na parte externa deste equipamento. Caso não corresponda, reajuste o seletor de voltagem a fim de evitar avarias ou riscos de incêndio e choque elétrico.

有關主(AC)電源線路的重要事項

接插電源以前,務請檢查當地的主(AC)電源線路電壓是否 和位於本機外面的電壓選擇開關設定的位置一致。如果不 一致,即重新設定電壓選擇開關使符合當地電壓,以免損 壞機器或引起火災/觸電的危險。

هام من أجل خط التيار المتردد (AC) الرئيسي

قبل الدخال القابس، تأكد من أن فولطية خط التيار المتردد (AC) الرئيسي لديك متوافقة مع موضع مفتاح اختيار الفولطية المتوفر خارج هذه المعدات وإذا اختلفت، فقم باعادة ضبط مفتاح اختيار الفولطية، لمنع التلف أو الصدمة الكهربائية وخطر الحريق.







Warnings, Cautions and Others Avisos, precauciones y otras notas Advertências, precauções e outras notas 警告,注意及其他須知事項

تحذيرات، تنبيهات وأشياء اخرى

Caution --- 0/| switch!

Disconnect the mains plug to shut the power off completely (the STANDBY/ON lamp goes off).

The ()/I switch in any position does not disconnect the mains line. • When the unit is on standby, the STANDBY/ON lamp lights red.

When the unit is on standby, the STANDBY/ON lamp lights red.
When the unit is turned on, the STANDBY/ON lamp lights orange.

The power can be remote controlled.

Precaución — Interruptor U/!!

Desconecte el enchufe de la red para desconectar la alimentación por completo (la lámpara STANDBY/ON se apaga).

El interruptor ()/Ino desconectará completamente la alimentación principal, cualquiera que sea su posición.

- Cuando la unidad está en espera, la lámpara STANDBY/ON se enciende en rojo.
- Cuando conecta la unidad, la lámpara STANDBY/ON se enciende en naranja.

La alimentacion puede ser controlada a distancia.

Precaução — Interruptor U/!!

Desconecte o cabo de alimentação para desligar completamente a alimentação de energia (o indicador luminoso STANDBY/ON se apaga).

O interruptor $(\bigcirc //|$ não desconecta totalmente a alimentação seja qual for a sua posição.

- Quando o aparelho estiver em standby, o indicador luminoso estará vermelho.
- Quando o aparelho estiver ligado, o indicador luminoso estará laranja.

A alimentação pode ser controlada remotamente.

注意一 い/1 開關!

無論のA開關在任何位置,電源線的電源還是沒有被切斷, 若要將電源完全關閉(STANDBY/ON 燈熄滅),應把電源 插頭拔離插座。

- 當本機處于備用狀態時, STANDBY/ON 燈是紅色。
- 當本機開啟后, STANDBY/ON 燈是橙色。

電源開關可用遙控器控制。

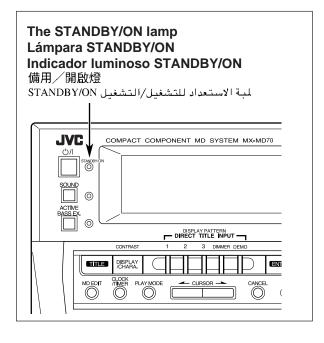
تحذير _1/ الكهربائية

انزع قابس الطاقة الكهربائية الرئيسي من اجل فصل الطاقة الكهربائية عن الجهاز كليا (تنطفئ لمبة الاستعداد للتشغيل/ التشغيل STANDBY/ON).

لا يفصل مفتاح الطاقة الكهربائيةا/لباي وضع خط تزويد الطاقة الكهربائية الرئيسي عن الجهاز .

- عندما يكون الجهاز في حالة استعداد للتشغيل، تضيء لمبة الاستعداد للتشغيل/التشغيل STANDBY/ON باللون الاحمر.
- عندما يتم تشغيل الجهاز، تضيء لمبة الاستعداد للتشغيل/
 التشغيل STANDBY/ON باللون البرتقالي.

يمكن التحكم عن بعد بالطاقة الكهربائية.



CAUTION

To reduce the risk of electrical shocks, fire, etc.:

- 1. Do not remove screws, covers or cabinet.
- 2. Do not expose this appliance to rain or moisture.

PRECAUCIÓN

Para reducir riesgos de choques eléctricos, incendio, etc.:

- 1. No extraiga los tornillos, los cubiertas ni la caja.
- 2. No exponga este aparato a la lluvia o a la humedad.

PRECAUÇÃO

Para reduzir riscos de choques elétricos, incêndio, etc.:

- 1. Não remova parafusos e tampas ou desmonte a caixa.
- 2. Não exponha este aparelho à chuva nem à umidade.

警告

為了減低觸電,火災等危險:

- 1. 請勿擅自卸下螺絲釘,蓋子或機殼。
- 2. 切勿讓本機受雨淋或置潮濕環境中。

تحذير

لتجنب خطر الحريق، الصدمات الكهربائية، الخ .:

لا تقم بفك البراغى، الاغطية أو الخزانة.

٢. لا تقم بتعريض هذا الجهاز للمطر أو للرطوبة.

Caution: Proper Ventilation

To avoid risk of electric shock and fire, and to prevent damage, locate the apparatus as follows:

1 Front: No obstructions and open spacing.

- 2 Sides/ Top/ Back: No obstructions should be placed in the areas shown by the dimensions below.
- 3 Bottom: Place on the level surface. Maintain an adequate air path for ventilation by placing on a stand with a height of 10 cm or more.

Precaución: el aparato debe estar bien ventilado

Para evitar posibles riesgos de descargas eléctricas e incendios y prevenir cualquier posible daño, coloque el aparato del modo siguiente:

1 Parte delantera: No ponga nada delante, deje el espacio libre.

2 Laterales/ parte superior/ parte trasera: No se debería colocar nada en las áreas y las distancias que se detallan a continuación.

3 Parte inferior: Coloque el aparato sobre una superficie recta. Debe haber buena circulación de aire; para ello, coloque el aparato sobre una base a una altura mínima de 10 cm.

Precaução: Ventilação adequada

Para evitar riscos de choques elétricos e incêndios, e prevenir avarias, instale o aparelho como segue:

1 Parte frontal: Sem obstruções e espaços abertos.

2 Partes laterais/Tampa/Posterior: Nenhuma obstrução deverá ser colocada entre as áreas cujas dimensões são indicadas abaixo.

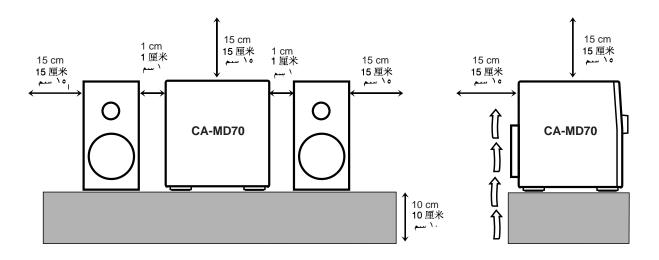
3 Parte inferior: Instale-o sobre uma superfície plana. Deverá ser mantido espaço suficiente para a ventilação se este for instalado numa posição que tenha uma altura de 10 cm ou mais.

告誡:正確通風

為免發生觸電和火警的危險,及防止本機受損,請將本機如下放置:

- 1 前面: 沒有障物及地方開闊。
- 2 側面/頂面/背面: 在圖中所示範圍中,不應放置任何障礙物。
- 3 底部: 放置在水平面上。放置在一個高 10 厘米或以上的臺上,以保持足夠的通風道。

تحذير: التهوية الصحيحة لتجنّب حصول صدمات كهربائية واخطار الحريق ومنع حصول تلف وضرر للجهاز، ركّب الجهاز كما يلي: ١ الجهة الامامية: يجب ان لا يكون هنالك عوائق ويجب ان تكون المنطقة مفتوحة امام الجهاز. ٢ الجهات الجانبية / العلوية / الخلفية: يجب عدم وضع عوائق في المناطق المبينة بالابعاد في الاسفل. ٣ القاعدة: يجب وضع الجهاز على سطح منبسط. اترك مسافة كافية من اجل التهوية بواسطة وضع الجهاز على حامل بارتفاع ١٠ سم او اكثر.



IMPORTANT FOR LASER PRODUCTS / IMPORTANTE PARA PRODUCTOS LÁSER / IMPOTANTE PARA PRODUTOS LASER / 雷射產品的重要説明 / مهم للمنتجات الليزرية

REPRODUCTION OF LABELS / REPRODUCCIÓN DE ETIQUETAS / REPRODUÇÃO DE ETIQUETAS 標簽內容説明 / إنتاج اللاصقات

- CLASSIFICATION LABEL, PLACED ON REAR ENCLOSURE
- ① ETIQUETA DE CLASIFICACIÓN, PEGADA EN LA PARTE POSTERIOR DE LA CAJA
- ① ETIQUETA DE CLASSIFICAÇÃO LOCALIZADA NA PARTE POSTERIOR DA CAIXA DO APARELHO.
- ① 分類標簽,貼在機殼背後。

(1) لاصق التصنيف، موضوعة على المرفق الخلفى



- 1. CLASS 1 LASER PRODUCT
- DANGER: Invisible laser radiation when open and interlock failed or defeated. Avoid direct exposure to beam.
- CAUTION: Do not open the top cover. There are no user serviceable parts inside the Unit; leave all servicing to qualified service personnel.
- 1. PRODUCTO LÁSER CLASE 1
- 2. **PELIGRO**: En el interior hay radiación láser invisible. Evite el contacto directo con el haz.
- 3. **PRECAUCIÓN**: No abra la tapa superior. En el interior de la unidad no existen piezas reparables por el usuario; deje todo servicio técnico en manos de personal calificado.
- 1. PRODUTO LASER CLASSE 1
- PERIGO: O laser emite uma rediação invisível que é perigosa, caso o aparelho esteja aberto e a trava inoperante ou danificada. Evite exposição direta ao feixe dos raios.
- CUIDADO: Não abra a caixa do aparelho. Não existem peças reparáveis pelo usuário na parte interna da unidade. Solicite assistência técnica somente a pessoal técnico qualificado.

- ② WARNING LABEL, PLACED INSIDE THE UNIT
- ② ETIQUETA DE ADVERTENCIA, PEGADA EN EL INTE-RIOR DE LA UNIDAD
- ② ETIQUETA DE ADVERTÊNCIA LOCALIZADA NA PARTE INTERNA DA UNIDADE.
- ② 警告標簽,貼於機內。

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- 1. 一級雷射產品
- 危險:當內部鎖定裝置失效或者損壞後,打開蓋板可能會產 生不可見的雷射幅射。應避免受到光束直接照射。
- 注意:請勿打開頂蓋板。本機內部沒有用戶可自行維修的部件;所有維修工作應由有資格的人員完成。
 - صنف ۱ منتج ليزري
- خطو: أشعة ليزرية غير مرئية عند الفتح والأغلاق الفاشل أو غير الصحيح.
 تجنب التعرض المباشر للاشعة.
- تحذير: لا تفتح الغطاء العلوي ليس في داخل الجهاز أقسام بمستطاع المستخدم صيانتها؛ إعهد بكافة الاعمال الصيانية لفنى مختص.



We would like to thank you for purchasing one of our JVC products. Before operating this unit, read this manual carefully and thoroughly to obtain the best possible performance from your unit, and retain this manual for future reference.

About This Manual

This manual is organized as follows:

- The manual mainly explains operations using the buttons and controls on the unit. You can also use the buttons on the remote control if they have the same or similar names (or marks) as those on the unit. If operation using the remote control is different from that using the unit, it is then explained.
- Basic and common information that is the same for many functions is grouped in one place, and is not repeated in each procedure. For instance, we do not repeat the information about turning on/off the unit, setting the volume, changing the sound effects, and others, which are explained in the section "Basic Settings" and "Common Operations" on pages 10, 11, and 12.
- The following marks are used in this manual:



Gives you warnings and cautions to prevent from a damage or risk of fire/electric shock.

Also gives you information which is not good for obtaining the best possible performance from the unit.



Gives you information and hints you had better know.

Precautions

Installation

- Install in a place which is level, dry and neither too hot nor too cold — between 5°C and 35°C.
- Install the unit in a location with adequate ventilation to prevent internal heat built-up in the unit.
- · Leave sufficient distance between the unit and the TV.
- Keep the speakers away from the TV to avoid interference with TV.



DO NOT install the unit in a location near heat sources, or in a place subject to direct sunlight, excessive dust or vibration.

Power sources

When unplugging from the wall outlet, always pull the plug, not the AC power cord.



DO NOT handle the AC power cord with wet

Moisture condensation

Moisture may condense on the lens inside the unit in the following cases:

- After starting heating in the room
- In a damp room
- If the unit is brought directly from a cold to a warm place

Should this occur, the unit may malfunction. In this case, leave the unit turned on for a few hours until the moisture evaporates, unplug the AC power cord, and then plug it in again.

Others

- · Should any metallic object or liquid fall into the unit, unplug the unit and consult your dealer before operating any further.
- If you are not going to operate the unit for an extended period of time, unplug the AC power cord from the wall outlet.



DO NOT disassemble the unit since there are no user serviceable parts inside.

If anything goes wrong, unplug the AC power cord and consult your dealer.

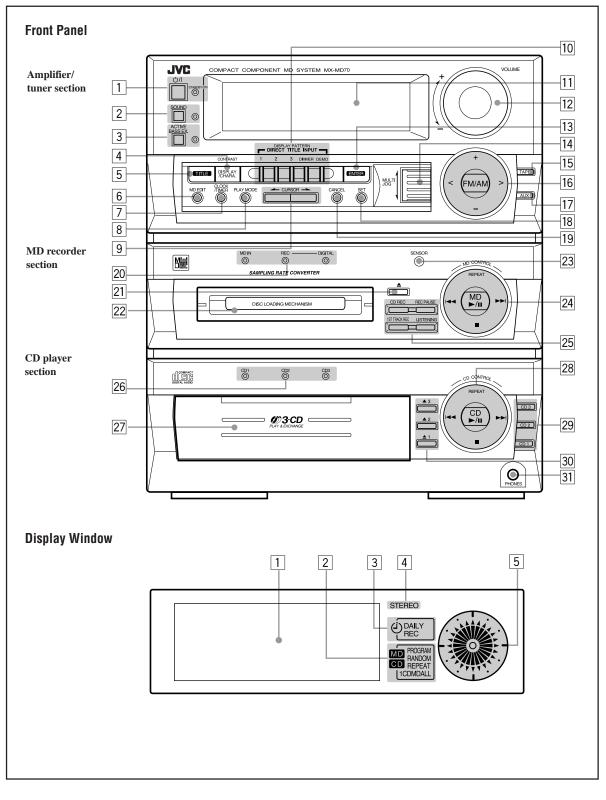
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Location of the Buttons and Controls

Become familiar with the buttons and controls on your unit.



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See pages in the parentheses for details.

Front Panel

Amplifier/tuner section

- 1 U/l button and STANDBY/ON lamp (11)
- 2 SOUND button and lamp (12)
- ACTIVE BASS EX. (extension) button and lamp (12)
- (4) CONTRAST/DISPLAY/CHARA. (character) button (10, 20, 34)
- 5 TITLE button (34)
- 6 MD EDIT button (29)
- 7 CLOCK/TIMER button (10, 39)
- 8 PLAY MODE button (16, 18, 20, 22)
- 9 CURSOR ← / → buttons (12, 35)
- 10 DISPLAY PATTERN buttons (10)
 - 1, 2, 3, DIMMER, and DEMO buttons *Pressing DEMO also turns on the unit.* DIRECT TITLE INPUT buttons (35)
- 11 Display window
- 12 VOLUME control (11)
- 13 ENTER button (35)
- 14 MULTI JOG dial
- 15 TAPE button (11)
- Pressing this button also turns on the unit.
- 16Tuner control buttons (13)
 - FM/AM, + / -, and < / > buttons Pressing FM/AM also turns on the unit.
- 17 AUX button (11, 25)
- Pressing this button also turns on the unit.
 ISET button
- 19 CANCEL button

MD recorder section

- 20 MD recorder operation lamps
- MD IN, REC, and DIGITAL lamps
- 21 ▲ (eject) button (19)
 Pressing this button also turns on the unit.
- 22 MD loading slot
- 23 SENSOR (remote sensor)
- 24 MD CONTROL buttons (19)
 - MD ►/II, REPEAT, I◄◄ / ►►I, and buttons *Pressing MD* ►/II *also turns on the unit.*
- 25 Recording buttons (24 27)
 - CD REC, REC PAUSE, 1ST TRACK REC, and LISTENING buttons

CD player section

- 26 Disc number lamps
 - CD 1, CD 2, and CD 3 lamps
- 27 Disc compartment
- 28 CD CONTROL buttons (15)
 CD ►/II, REPEAT, I◄◀ / ►►I, and buttons *Pressing CD* ►/III *also turns on the unit.*
- 29 Disc number buttons (16)
 - CD 1, CD 2, and CD 3 buttons Pressing one of these buttons also turns on the unit.
- (open/close) buttons (15)
 - ▲ 1, ▲ 2, and ▲ 3 buttons Pressing one of these buttons also turns on the unit.
- 31 PHONES jack (11)

Display window

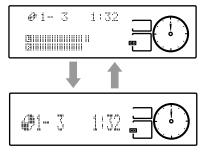
- 1 Main display
- 2 MD/CD playback mode indicators
- PROGRAM, RANDOM, REPEAT mode indicators
- 3 Timer mode indicators
 - DAILY (daily timer) and REC (recording timer) indicators
- 4 STEREO indicator
- 5 Analog clock



About the indications in the main display

When operating the unit using the remote control, the indications in the main display appear enlarged (without the audio level indicator), then become diminished (with the audio level indicator). On the other hand, they do not appear enlarged when using the buttons on the unit.

Ex. When using the remote control



The illustrations of the main display used in this manual are of those shown by using the buttons on the unit.



Continued



Remote Control 1 ୍ ୦/୮ ୦୦୦ 2 SLEEP ABC DEF DISPLAY GHI 3 ^{TUV} (9) SET 10 (+10) \bigcirc 4 5 6 7 PAUS MD /II 8 CD ►/II 9 CD1 $\mathbf{-}$ 10 Ð 11 VOLUME Ð JVC Ď Õ Ĩ ΠÖÖr õ dia ő @3-CD <

When using the remote control, point it at the remote sensor on the front panel.

Remote Control

- 1 PLAY MODE button (16, 18, 20, 22)
- 2 MD TITLE INPUT button (37)
- 3 Number buttons*
 - 1 10, +10 buttons (14, 16, 20)
 - Character entry buttons (A Z) (37)
 - — / buttons (37)
- 4 SOUND button (12)

12

13

14

15

16

17

18

19

20

- 5 FM MODE button (13)
- 6 Source selecting buttons (11, 13, 25)
 - FM/AM, TAPE, and AUX buttons *Pressing one of these buttons also turns on the unit.*
- 7 MD ►/II button (19)
 Pressing this button also turns on the unit.
 8 MD REC PAUSE button (25)
- G CD ►/II button (15)
 Pressing this button also turns on the unit.
- **10** FADE MUTING button (11)
- 11 VOLUME + / button (11)
- 12 Ů/l button (11)
- 13 SLEEP button (42)
- 14 DISPLAY/CHARA (character) button (20, 34)
- 15 CANCEL button
- 16 SET button
- 17 BASS button (12)
- 18 ENTER button (35)
- 19 Disc number buttons (16)
 - CD 1, CD 2, and CD 3 buttons Pressing one of these buttons also turns on the unit.
- 20 CD/MD/tuner control buttons*
 - REPEAT, $| \blacktriangleleft \triangleleft / \triangleright \succ \mid$, \blacksquare , and $\lhd / \triangleright / \bigtriangleup / \bigtriangledown$ buttons

* Before using these buttons:

For tuner operations, press FM/AM on the remote control first.

For CD operations, press one of the disc number buttons (CD 1, CD 2, and CD 3) or CD \blacktriangleright /II on the remote control first.

For MD operations, press MD $\blacktriangleright/11$ on the remote control first.

• *The number buttons are also used for the following:* **To enter an MD title,** press MD TITLE INPUT on the remote control first.



To operate the unit correctly using the remote control

Make sure that the operation mode for the unit is the same for the remote control.

Unpacking

After unpacking, check to be sure that you have all the following items.

The number in the parentheses indicates the quantity of the pieces supplied.

- AM loop antenna (1)
- FM antenna (1)
- Remote control (1)
- Batteries (2)

stol

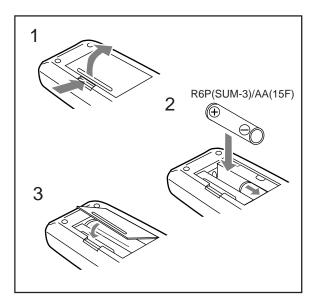
• AC plug adaptor (1) — except for Hong Kong

If any is missing, consult your dealer immediately.

Putting the Batteries into the Remote Control

Insert the batteries — R6P(SUM-3)/AA(15F) — into the remote control, by matching the polarity (+ and –) on the batteries with the + and – markings on the battery compartment.

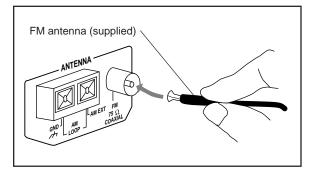
When the remote control can no longer operate the unit, replace both batteries at the same time.



- DO NOT use an old battery together with a new one.
- DO NOT use different types of batteries together.
- DO NOT expose batteries to heat or flame.DO NOT leave the batteries in the battery
- compartment when you are not going to use the remote control for an extended period of time. Otherwise, it will be damaged from battery leakage.

Connecting Antennas

FM antenna



- 1 Attach the FM antenna to the FM 75 Ω COAXIAL terminal.
- 2 Extend the FM antenna.
- **3** Fasten it up in the position which gives you the best reception.

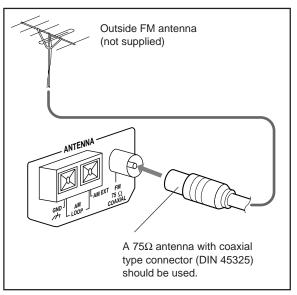


About the supplied FM antenna

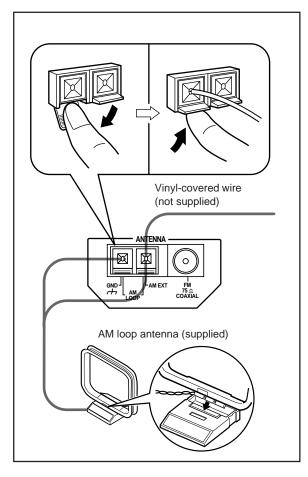
The FM antenna supplied with this unit can be used as temporary measure. If reception is poor, you can connect an outside FM antenna.

To connect an outside FM antenna

Before connecting it, disconnect the supplied FM antenna.



AM antenna



- 1 Connect the AM loop antenna to the AM LOOP terminals as illustrated.
- 2 Turn the AM loop antenna until you have the best reception.

To connect an outside AM antenna

When reception is poor, connect a single vinyl-covered wire to the AM EXT terminal and extend it horizontally. (The AM loop antenna must remain connected.)

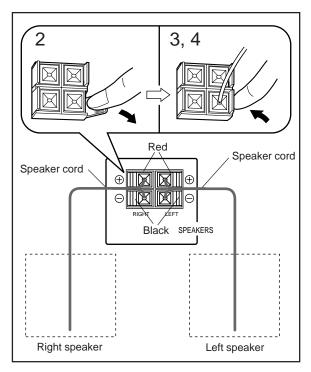


For better reception of both FM and AM

- Make sure the antenna conductors do not touch any other terminals and connecting cords.
- Keep the antennas away from metallic parts of the unit, connecting cords, and the AC power cord.

Connecting Speakers

You can connect the speakers using the speaker cords.



- 1 Twist the core of the cord at the end of each cord, then remove the insulation.
- 2 Open the speaker terminal.
- **3** Insert the end of the speaker cord to the terminal. Match the polarity of the speaker terminals: Red (+) to red (+) and black (-) to black (-).

4 Close the speaker terminal on the rear of the unit.

Use only speakers with the same speaker impedance as indicated by the speaker terminals on the rear of the unit.

Connecting Other Equipment

You can connect the following equipment to this unit:

- Cassette deck used as a playback and recording device.
- Audio equipment used only as an analog playback device.
- Audio equipment with an optical digital output terminal — used only as a digital playback device.

When you connect and use these equipment, refer also to the manuals supplied with them.

Be sure that the plugs of the audio cords and the jacks on the rear of the unit are color coded: White plugs and jacks are for left audio signals, and red ones for right audio signals.

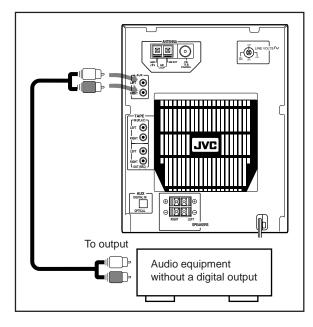


To connect a cassette deck

DO NOT connect other equipment while the power is on.DO NOT plug in any equipment until all

connections are complete.

To connect audio equipment without a digital output terminal



Connect the audio output jacks on the other equipment and the AUX jacks, using an audio cord (not supplied).

By using audio cords (not supplied), connect:

To output

• Between the audio input jacks on the cassette deck and the TAPE OUT (REC) jacks.

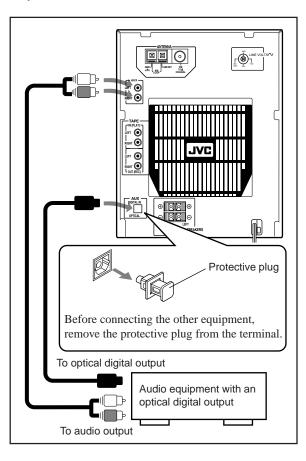
Cassette deck

• Between the audio output jacks on the cassette deck and the TAPE IN (PLAY) jacks.





To connect audio equipment with an optical digital output terminal

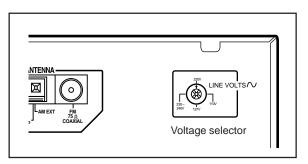


By using both an optical digital cord (not supplied) and an audio cord (not supplied), connect:

- Between the optical digital output terminal on the other equipment and the AUX DIGITAL IN OPTICAL terminal.
- Between the audio output jacks on the other equipment and the AUX jacks.

Adjusting the Voltage Selector

Before plugging in the unit, set the correct voltage for your area with the voltage selector on the rear of the unit.

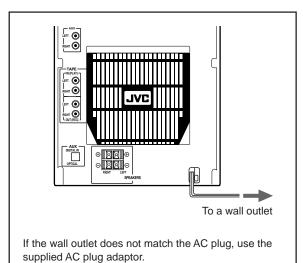


Use a screwdriver to rotate the voltage selector so the voltage number the arrow is pointing at is the same as the voltage where you are plugging in the unit.



DO NOT plug in before setting the voltage selector switch on the rear of the unit and all connection procedures are complete.

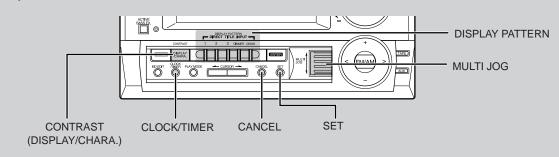
NOW, you can plug in the unit and other connected equipment FINALLY!



When connecting the AC power cord into a wall outlet, the unit automatically starts display demonstration.

To stop the display demonstration, press any button on the unit or the remote control.

Amplifier/Tuner



Before operating the unit any further, first set the clock built in this unit, then some other basic settings.

Setting the Clock

You can set the clock whether the unit is turned on or in standby mode.

1 Press CLOCK/TIMER.

The hour digit in the main display starts flashing.



- 2 Rotate MULTI JOG to adjust the hour, then press SET.
 - · If you want to correct the hour after pressing SET, press CANCEL. The hour digit starts flashing again.
- **3** Rotate MULTI JOG to adjust the minute, then press SET.

After completing the clock setting...

The analog clock in the display window shows the current time. This analog clock advances its long hand twice every 5 minutes. (When 3 minutes pass, it advances once. Then 2 minutes pass, it advances again.)



If there is a power failure

The clock loses the setting and is reset to "0:00." You need to set the clock again.

Changing the Display Pattern

To change the display pattern of the audio level indicator

The audio level indicator appears in the main display only while playing a source.

Press 1, 2 or 3.

- 1: For the following pattern:
- 2: For the following pattern:
- 3: For erasing the audio level indicator: The audio level indicator is not shown, and other indications - the disc number or track number, playing time — become enlarged in the main display. To restore the previous audio level indicator, press 3 again. (The other indications in the main display are diminished.)

To dim the display window Press DIMMER.

Each time you press the button, the display window and the MULTI JOG dial dim and brighten alternately.

To start the display demonstration Press DEMO.

- If the unit is in standby mode, the power turns on automatically.

To stop the demonstration, press any button. "DEMO OFF" appears.

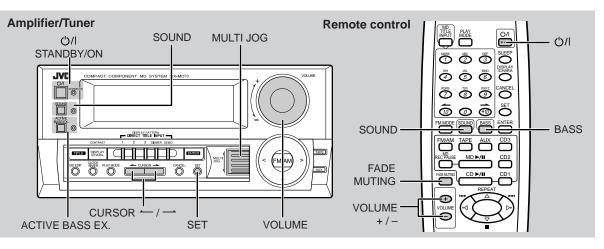
To adjust the contrast of the display window

- 1 Press and hold CONTRAST (DISPLAY/CHARA.) for more than 2 seconds. The contrast adjustment display appears.
- Rotate MULTI JOG to adjust the contrast. 2

After completing contrast adjustment... Pressing any button restores the previous display.



Common Operations



Here are basic and common things that apply to all the functions of the unit.

Turning On the Power and Selecting the Sources

When you press the play button for a particular source, the unit automatically turns on (and starts playing the source).

To select the external equipment as the source, press TAPE or AUX so that the unit automatically turns on.

To turn on the unit without playing, press ひ/ so that the STANDBY/ON lamp lights orange.

To turn off the unit (on standby), press ()/| again so that the STANDBY/ON lamp lights red.

A little power is always consumed even while the unit is in standby mode.

To switch off the power supply completely, unplug the AC power cord from the AC outlet. The STANDBY/ON lamp goes off.

Notes When you unplug the AC power cord or if a power failure occurs

The clock is reset to 0:00 right away, while the tuner preset stations will be erased in a few days.

Adjusting the Volume

You can adjust the volume level only while the unit is turned on.

Turn VOLUME clockwise to increase the volume or counterclockwise to decrease it.

When using the remote control, press VOLUME + to increase the volume or press VOLUME – to decrease it.



Connect a pair of headphones to the PHONES jack. No sound comes out of the speakers. Be sure to turn down the volume before connecting or putting headphones.



PHONES jack

stor

DO NOT turn off (on standby) the unit with the volume set to an extremely high level; otherwise, the sudden blast of sound can damage your hearing, speakers and/or headphones when you turn on the unit or start playing any source. REMEMBER you cannot adjust the volume level while the unit is in standby mode.

To turn down the volume level temporarily

Press FADE MUTING on the remote control. **To restore the sound,** press the button again.



Reinforcing the Bass Sound

The richness and fullness of the bass sound is maintained regardless of how low you set the volume. You can use this effect only for playback.

To get the effect, press ACTIVE BASS EX. (extension) on the unit or BASS on the remote control so that the ACTIVE BASS EX. lamp lights on the unit.

 11	IV		55
:			ON

(In the main display)

To cancel the effect, press the button again so that the lamp goes off.

Selecting the Sound Modes

You can select one of the 6 preset sound modes. The sound modes can be applied only to playback sounds, and cannot be used for recording.

To select the sound modes, press SOUND so that the SOUND lamp lights on the unit.

• Each time you press the button, the sound modes change as follows:

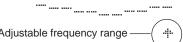
(Dance CLL	B HALL STADIUM ROCK- JB) MANUAL CLASSIC POP	2) Rotate MU of the selec
	Increases resonance and bass.	
HALL:	Adds depth and brilliance to the sound.	
STADIUM:	Adds clarity and spreads the sound, like in an outdoor stadium.	Adjusta
ROCK:	Boosts low and high frequency. Good for acoustic music.	3) Repeat step
POP:	Good for vocal music.	other frequ
CLASSIC:	Good for classical music.	
MANUAL:	Your individual mode stored in memory. See "Creating Your Own Sound Mode — MANUAL Mode."	Press SET aga The equalizer p memory.
OFF:	Cancels the sound mode.	

Creating Your Own Sound Mode — MANUAL Mode

You can create and store your own sound mode only by using the buttons and controls on the unit.

• There is a time limit in doing the following steps. If the setting is canceled before you finish, start from step 1 again.

Press SOUND repeatedly until "MANUAL" appears in the main display. MANUAL Equalizer pattern -Press SET. 1 01.1 Ø Adjustable frequency range Adjust the equalizer pattern. 1) Press CURSOR \leftarrow / \rightarrow to select the frequency range to adjust (LOW, MID, HIGH). ULTI JOG to adjust the level (-3 to +3) cted frequency range. HIRAH +2



ps 1) and 2) to adjust the level of the uency ranges.

ain.

pattern you have created are stored in

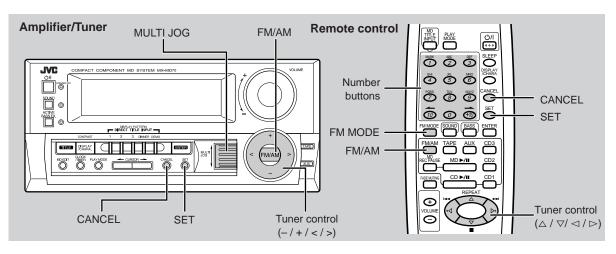
MARLIAL

····

To use your own sound mode

Select MANUAL when using the sound modes. See "Selecting the Sound Modes."

Listening to FM and AM Broadcasts



When using the number buttons on the remote control, make sure that they are ready for tuner operations.

- Pressing FM/AM on the remote control makes the number buttons ready for tuner operations.
- Check the AM tuner interval spacing (9 kHz or 10 kHz) for your area (see below).

Setting the AM Tuner Interval Spacing

Some countries space AM stations 9 kHz apart, and some countries use 10 kHz spacing.

When shipped, the built-in AM tuner is set to 9 kHz spacing.

To set the AM tuner to the 10 kHz spacing, be sure that the unit is turned off, but is plugged into a wall outlet. Hold down > of the tuner control and then press O/|.

To set it back to the 9 kHz spacing, be sure that the unit is turned off, but is plugged into a wall outlet. Hold down < of the tuner control and then press O/I.

Tuning in a Station

Press FM/AM.

The unit automatically turns on and tunes in the previously tuned station (either FM or AM).

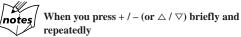
• Each time you press the button, the band alternates between FM and AM.

On the unit:

Press and hold + or – of the tuner control buttons. <u>On the remote control:</u>

Press and hold \triangle or \bigtriangledown of the tuner control buttons. The unit starts searching stations and stops when a station of sufficient signal strength is tuned in. If a program is broadcast in stereo, the STEREO indicator also lights.

To stop during searching, press $+ / - (\text{or } \triangle / \nabla)$ of the tuner control buttons again.



The frequency changes step by step.

To change the FM reception mode

When an FM stereo broadcast is hard to receive or noisy, press FM MODE on the remote control so that "MONO" appears in the main display. Reception improves.

To restore the stereo effect, press FM MODE again so that "AUTO" appears in the main display. In this stereo mode, you can hear stereo sounds when a program is broadcast in stereo.



Presetting Stations

You can preset 30 FM and 15 AM stations at random. In some cases, test frequencies have been already memorized for the tuner since the factory examined the tuner preset function before shipment. This is not a malfunction. You can preset the stations you want into memory by following the presetting method.

• There is a time limit in doing the following steps. If the setting is canceled before you finish, start from step 1 again.

I Tune in the station you want to preset.

• See "Tuning in a Station."

#FM 1 87.50

Press SET.

The current preset number starts flashing.

Select a preset number.

<u>On the unit:</u> Rotate MULTI JOG, or press < or > of the tuner control buttons.

On the remote control:

Press \lhd or \succ of the tuner control buttons.

You can also use the number buttons. (Make sure that you have pressed FM/AM on the remote control before pressing the Number buttons.)
For preset number 5, press 5.
For preset number 15, press +10 then 5.
For preset number 20, press +10, then 10.
For preset number 30, press +10, +10, then 10.

Press SET again.

The tuned station in step 1 is stored in the preset number selected in step 3.

• Storing a new station on a used number erases the previously stored one.

"MEMORY" does not appear if you press SET on the remote control.



When you unplug the AC power cord or if a power failure occurs

The preset stations will be erased in a few days. If this happens, preset the stations again.

Tuning in a Preset Station

Press FM/AM.

The unit automatically turns on and tunes in the previously tuned station (either FM or AM).

- Each time you press the button, the band alternates between FM and AM.
- Select a preset number.

On the unit:

Rotate MULTI JOG, or press < or > of the tuner control buttons.

On the remote control:

Press \lhd or \triangleright of the tuner control buttons.

- You can also use the number buttons. (Make sure that you have pressed FM/AM on the remote control before pressing the Number buttons.) For preset number 5, press 5. For preset number 15, press +10 then 5. For preset number 20, press +10, then 10.
- For preset number 30, press +10, +10, then 10.

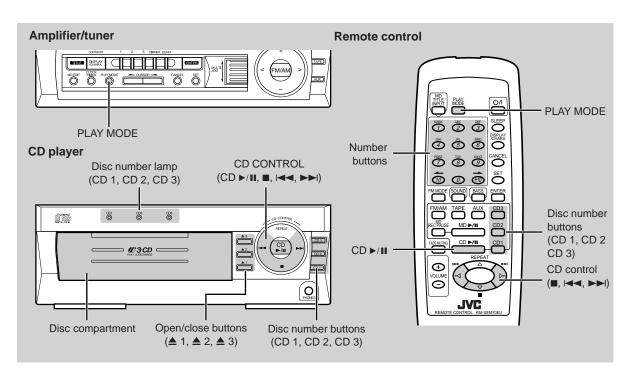
To erase a preset station

The following procedure is only possible on the unit.

- 1 Select a preset station number you want to erase.
- **2 Press CANCEL.** The preset number starts flashing in the main display.
- 3 Press SET.

"CANCEL" appears in the main display, and the station frequency stored in the preset number is erased.

Playing Back CDs



When using the remote control, make sure that it is ready for CD operations.

 Pressing CD 1, CD 2, CD 3, or CD ►/II on the remote control makes the remote control ready for CD operations.

Loading CDs

Press one of the open/close buttons (▲ 1 to ▲ 3) for the disc tray (CD 1 to 3) you want to load a CD onto.
The unit automatically turns on and the disc compartment comes out with the specified disc tray on the top.
CD1 CPEN
Place a disc correctly on the circle of the disc tray, with its label side up.
Image: Coord No good
When using a CD single (8 cm), place it on the inner circle of the disc tray.

Press the same open/close button ($\triangleq 1$ to $\triangleq 3$) you have pressed in step 1.

The disc compartment closes, and the corresponding disc number lamp (CD 1 to CD 3) lights.

4 Repeat steps 1 to 3 to place other CDs.



When loading more than one CD continuously

Press the open/close button ($\triangleq 1$ to $\triangleq 3$) for the next tray you want to place a CD onto, the disc compartment automatically closes and then opens with the next tray on the top.



About the disc number lamps (CD 1 to CD 3)

Each disc number lamp corresponds to the disc tray of the same number.

- It lights orange when the unit has recognized that there is a CD on the corresponding disc tray.
- It lights green when a CD on the corresponding disc tray is selected as the current disc or played back.

Playing Back the Entire Discs — Continuous Play

You can play CDs continuously.

Load CDs.

Press one of the disc number buttons (CD 1, CD 2 and CD 3) for the disc you want to play.

CD playback starts from the first track of the selected disc.

*0*1−1 0:03

Disc No. Track No. Elapsed playing time

• Pressing CD ►/II instead of the disc number buttons starts playing back the CD whose disc number lamp lights green.

To stop during play, press \blacksquare of the CD control.

To remove the disc, press the corresponding open/close buttons (\triangleq 1 to \triangleq 3).



CD playback sequence

When 3 CDs are loaded in the disc compartment, they are played in one of the following sequences.

- When CD 1 is pressed : CD 1 \Rightarrow CD 2 \Rightarrow CD 3 (then stops)
- When CD 2 is pressed : CD 2 \Rightarrow CD 3 \Rightarrow CD 1 (then stops)
- When CD 3 is pressed : CD 3 \Rightarrow CD 1 \Rightarrow CD 2 (then stops)
- * When only 2 CDs are loaded, they are played in the same order, but the disc tray without a CD is skipped.

Basic CD Operations

While playing a CD, you can do the following operations.

To exchange CDs during playback of another

Press the open/close button (\triangleq 1 to \triangleq 3) corresponding to a disc number whose disc number lamp is lit orange to eject that disc tray and exchange the CD.

When CDs are exchanged during playback, playback stops after playing the last exchanged CD.

To stop playback for a moment

Press CD ►/II.

To resume play, press CD ►/II again.

To locate a particular point in a track

During play, press and hold I ◄ or ►►I of the CD control. • I ◄ : Fast reverses the disc.

• **I** : Fast forwards the disc.

To go to another track

- Idd : Goes back to the beginning of the current or previous tracks.
- ►►► : Skips to the beginning of the next or succeeding tracks.

Rotating MULTI JOG on the unit also changes the tracks.

To go to another track directly using the number buttons

Pressing the number button(s) allows you to start playing the track number you want. (Make sure that you have pressed one of the following buttons — disc number buttons (CD 1, CD 2, CD 3) and CD \blacktriangleright/II — on the remote control before using the number buttons.)

Ex.: For track number 5, press 5.
For track number 15, press +10 then 5.
For track number 20, press +10, then 10.
For track number 32, press +10, +10, +10, then 2.

Programming the Playing Order of the Tracks — Program Play

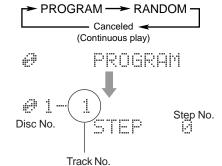
You can arrange the order in which the tracks play before you start playing. You can program up to 32 tracks.

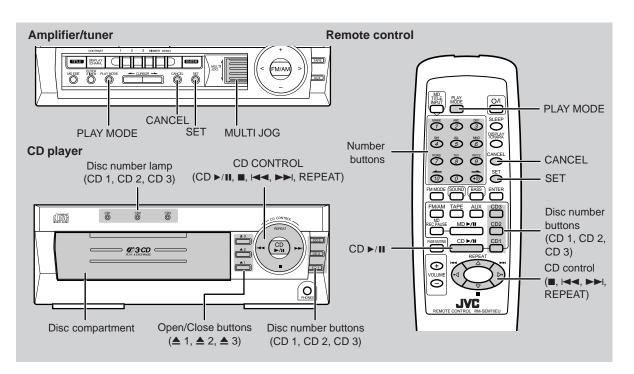
Load discs.

 If the current playing source is not the CD player, press CD ▶/III, then ■ of the CD control before going to the next step.

Press PLAY MODE so that "PROGRAM" appears in the main display.

• Each time you press the button, play mode changes as follows:





Continued

Press one of the disc number buttons (CD 1, CD 2, and CD 3) to select the disc number you want to play.

Ø

1

@ 2)

Ex. Disc No. 2 is selected

Select the track from the CD selected in the above step.

On the unit:

Rotate MULTI JOG to select the track number, then press SET.

On the remote control:

- Press the number buttons.
- For how to use the number buttons, see "To go to another track directly using the number buttons" on page 16.

Ex. Track No. 8 is selected

Program other tracks you want.

- To program tracks from the same disc, repeat step 4.
- To program tracks from a different disc, repeat steps 3 and 4.

Press CD ►/II.

The tracks are played in the order you have programed.

To stop during play, press \blacksquare of the CD control.

To exit from program play mode, press PLAY MODE once or twice so that the unit enters another playback mode (Random play or Continuous play mode).

To check the program contents

Before playing, you can check the program contents by pressing I ← or ►►I of the CD control.

- **>>** : Shows the programed tracks in the programed order.
- Image: Shows them in the reverse order.

To modify the program

Before playing, you can erase the last programed track by pressing CANCEL.

Each time you press the button, the last programed track is erased from the program.

To add tracks in the program before you start play, simply select track numbers you want to add.





"PROGRAM FULL" will appear in the main display.

If your entry is ignored

You have tried to program a track from an empty tray, or a track number that does not exist on the CD (for example, selecting track 14 on a CD that only has 12 tracks). Such entries are ignored.

Playing at Random — Random Play

The tracks of all loaded CDs will play at random.

- Prepare discs.
 - If the current playing source is not the CD player, press CD ▶/II, then ■ of the CD control before going to the next step.

Press PLAY MODE repeatedly until "RANDOM" appears in the main display.

• Each time you press the button, play mode changes as follows:

 PROGRAM → RANDOM Canceled (Continuous play)

3 Press CD ►/II.

The tracks are played at random.

- Random play ends when all the tracks are played once. • Random play also ends when the disc compartment is
- opened.

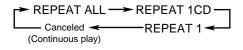
To stop during play, press ■ of the CD control.

To exit from Random play mode, press PLAY MODE once or twice so that the unit enters another playback mode (Continuous play or Program play mode).

Repeating Tracks or CDs — Repeat Play

You can have all the CDs, the program or the individual track currently playing repeat as many times as you like.

To repeat play, press REPEAT during or before playing. Each time you press the button, Repeat play mode changes as follows, and appears in the main display:



REPEAT ALL:	Repeats all the tracks on all the CDs
	(continuously or at random), or all the
	tracks in the program.
REPEAT 1CD*:	Repeats all the tracks on one CD.

REPEAT 1: Repeats one track on one CD.

REPEAT 1CD is not used for Program play and Random Play.

To cancel Repeat play, press REPEAT repeatedly until no REPEAT indication (REPEAT ALL, REPEAT 1CD, or REPEAT 1) lights on the display window.

• REPEAT 1CD is also canceled when you press PLAY MODE to change the play mode.

Prohibiting Disc Ejection — Disc Lock

You can prohibit CD and MD ejection from the unit and can lock discs.

• This operation is only possible using the unit.

To prohibit disc ejection, press \blacktriangle 1 while holding \blacksquare of

the CD control with the unit set in standby mode.

"LOCKED" appears for a while, and the loaded discs (both CDs and MD) are locked.

LOCKED

note

If you try to eject the locked discs

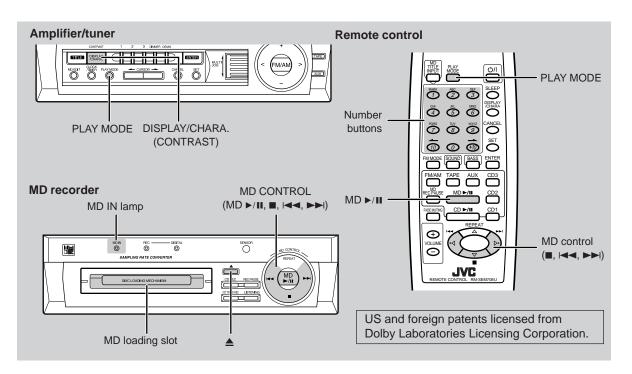
"LOCKED" appears to inform you that the Disc Lock is in use.

To cancel the prohibition and unlock the discs, press \triangleq 1 again while holding \blacksquare of the CD control with the unit set in standby mode.

"UNLOCKED" appears for a while, and the loaded discs (both CDs and MD) are unlocked.



Playing Back an MD

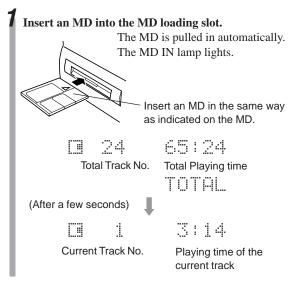


When using the remote control, make sure that it is ready for MD operations.

• Pressing MD ►/II on the remote control makes the remote control ready for MD operations.

Playing Back the Entire MD — Continuous Play

You can play an MD continuously.



Press MD ►/II.

MD playback starts from the first track.

Track No. Elap

Elapsed playing time

To stop during play, press \blacksquare of the MD control.

To remove the disc, press **▲**.



The title will be shown at the lower portion of the main display. (If a title is long and cannot be shown at a time, the unit scrolls the title to show the entire title.)

Basic MD Operations

While playing an MD, you can do the following operations.

To stop playback for a moment Press MD ►/II.

To resume play, press MD ►/III again.

To locate a particular point in a track

During play, press and hold I ◄ or ►► I of the MD control.

- I : Fast reverses the disc.
- **I** : Fast forwards the disc.

To go to another track

Press $| \blacktriangleleft \triangleleft |$ or $| \triangleright \mid |$ of the MD control repeatedly before or during playback.

- Idd : Goes back to the beginning of the current or previous tracks.
- ►►I : Skips to the beginning of the next or succeeding tracks.

Rotating MULTI JOG on the unit also changes the tracks.

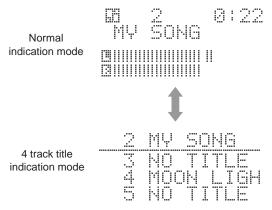
To go to another track directly using the number buttons

Pressing the number button(s) allows you to start playing the track number you want. (Make sure that you have pressed $MD \triangleright/II$ on the remote control before using the Number buttons.)

Ex.: For track number 5, press 5. For track number 15, press +10 then 5. For track number 20, press +10, then 10. For track number 32, press +10, +10, +10, then 2.

To change the display Indications

The main display can show 4 track titles at a time. Each time you press DISPLAY/CHARA. (CONTRAST), the indications in the main display changes as follows:



If a track title cannot be shown at a time while in 4 track title indication mode

The unit scrolls the title. However, if it consists of more than 32 characters, the entire title cannot be shown.

If you change the tracks quickly while in 4 track title indication mode

The unit cannot catch up with the changing speed and, therefore, cannot show the track titles correctly.

Programming the Playing Order of the Tracks — Program Play

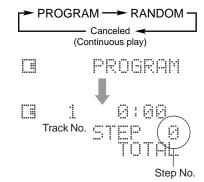
You can arrange the order in which the tracks play before you start playing. You can program up to 32 tracks.

Insert an MD.

 If the current playing source is not the MD recorder, press MD ►/II, then ■ of the MD control before going to the next step.

Press PLAY MODE so that "PROGRAM" appears in the main display.

• Each time you press the button, play mode changes as follows:



Select the track.

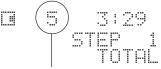
On the unit:

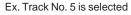
Rotate MULTI JOG to select the track number, then press SET.

On the remote control:

Press the number buttons.

• For how to use the number buttons, see "To go to another track directly using the number buttons."

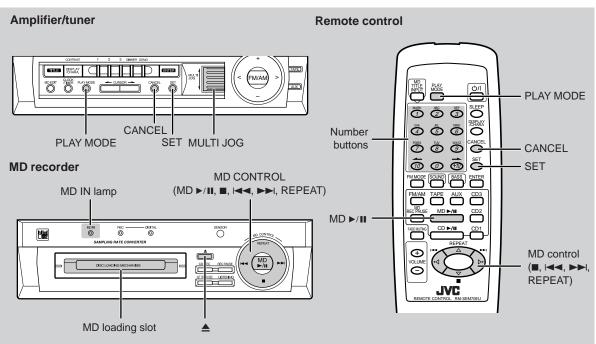




• If the selected track has a title, it will be shown at the lower portion of the main display. (If the title is long and cannot be shown at a time, the unit scrolls the title to show the entire title)

Continued





Continued

4 Repeat step 3 to program other tracks you want.

5 Press MD ►/II.

The tracks are played in the order you have programed.

To stop during play, press \blacksquare of the MD control.

To exit from Program play mode, press PLAY MODE once or twice so that the unit enters another playback mode (Random play or Continuous play mode).

To check the program contents

Before playing, you can check the program contents by pressing | ◄ or ►► | of the MD control.

- **>>** : Shows the programmed tracks in the programmed order.
- I Shows them in the reverse order.

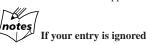
To modify the program

Before playing, you can erase the last programed track by pressing CANCEL.

Each time you press the button, the last programed track is erased from the program.

To add tracks in the program before you start play, simply select track numbers you want to add.

If you try to program a 33rd step "PROGRAM FULL" will appear on the display.



You have tried to program a track that does not exist on the MD (for example, selecting track 14 on an MD that only has 12 tracks). Such entries are ignored.



Playing at Random — Random Play

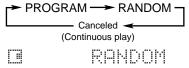
The tracks of the loaded MD will play at random.

Insert an MD.

 If the current playing source is not the MD recorder, press MD ▶/II, then ■ of the MD control before going to the next step.

2 Press PLAY MODE repeatedly until "RANDOM" appears in the main display.

• Each time you press the button, play mode changes as follows:



3 Press MD ►/II.

The tracks are played at random.

Random play ends when all the tracks are played once. • Random play also ends when the MD is ejected.

To stop during play, press \blacksquare of the MD control.

To exit from Random play mode, press PLAY MODE once or twice so that the unit enters another playback mode (Continuous play or Program play mode).

Repeating Tracks — Repeat Play

You can have all the tracks, the program or the individual track currently playing repeat as many times as you like.

To repeat play, press REPEAT during or before playing. Each time you press the button, Repeat play mode changes as follows, and appears in the main display:



REPEAT ALL :	Repeats all the tracks in the MD
	(continuously or at random), or all the
	tracks in the program.
REPEAT 1:	Repeats one track.

To cancel Repeat play, press REPEAT repeatedly until no REPEAT indication (REPEAT ALL or REPEAT 1) lights on the display window.

To prohibit disc ejection — Disc Lock

You can prohibit CD and MD ejection from the unit, and can lock discs.

See page 18 for details.

Recording onto an MD

Things to Know Before You Start Recording

- It may be unlawful to record or play back copyrighted material without the consent of the copyright owner.
- When you record onto partially recorded MD, its contents are not erased or overwritten. The recording starts from the point following the last recorded track of the MD.
- If you want to record on such an MD from the beginning, you have to erase its contents first (see "ALL ERASE Function" on page 33).
- The recording level is automatically set correctly, so it is not affected by the VOLUME control. Thus, during recording you can adjust the sound you are actually listening to without affecting the recording level.
- While recording, you can hear sound modes and/or the active bass extension effect through the speakers or headphones. However, the sound is recorded without these effects (see page 12).

About the track marks

When playing an MD, you can move among the tracks using MULTI JOG or I◄◀ / ►►I of the MD control, or even select directly a track using the remote control. You can do this because there is a mark recorded at the front of each track enabling you to locate the track. This mark is called a "**track mark**" and the portion between two adjacent track marks is called a "**track**."

- When recording from a digital source such as the CD player, a track mark is recorded automatically at the beginning of each track.
- When recording from an analog source such as FM/AM broadcasts, no track mark is recorded on the MD. This means that, when playing this MD, the MD recorder will regard the entire recording as one track (track 1). You will not be able to select directly a song or navigate through songs.

However, if there is a blank of 3 seconds or more, the MD recorder will consider it as a blank separating 2 tracks and consequently put a track mark.

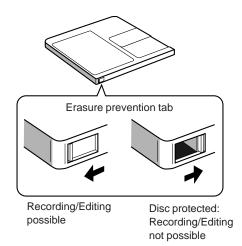
To put a track mark manually while recording an analog source, press SET at the place you want to put a track mark.

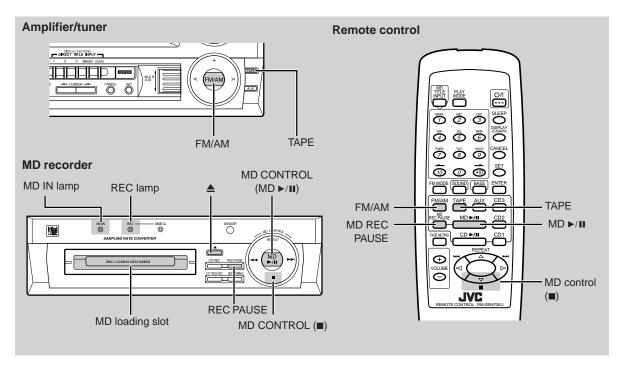
To add a track mark after recording is over, you can use the DIVIDE function (see page 29).

To avoid erasing important recordings

Recordable MDs have an erasure prevention tab so that important recordings are not accidentally erased. When you finish recording or editing, slide open the erasure prevention tab on the cartridge side surface. New recording or editing is now no longer possible.

To do re-recording or editing, return the tab to the closed position.





When using the remote control, make sure that it is ready for MD operations.

• Pressing MD ►/II on the remote control makes the remote control ready for MD operations.

Recording FM/AM Broadcasts or from the Cassette Deck

You can record FM/AM broadcasts or sounds from the cassette deck connected to the TAPE jacks on the rear.

Insert a recordable MD.

The MD IN lamp lights.

Start playing the source — FM, AM, or cassette deck connected to the TAPE jacks.

- When recording an FM/AM broadcast, press FM/ AM, then tune into a station you want.
- When recording from the cassette deck, press TAPE to select it as the playback source.

3 Press REC PAUSE on the unit (or MD REC PAUSE on the remote control).

The REC lamp on the unit starts flashing.

Ex.: When recording an FM station



87.59 74:59 Remaining time for recording

Press MD ►/II.

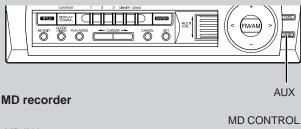
The REC lamp stops flashing and remains lit, and recording starts.

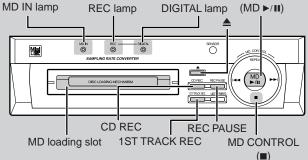
To stop recording, press \blacksquare of the MD control.

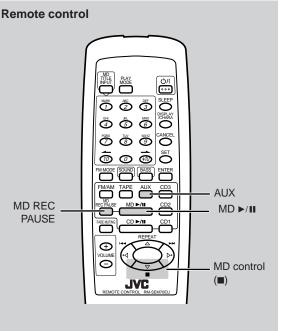
To stop recording temporarily, press REC PAUSE (or MD REC PAUSE) again. To resume recording, press MD ►/II again.

To remove the MD, press **▲**.

Amplifier/tuner







Recording from the External (AUX) Equipment

Both analog and digital recording is possible from the external equipment connected to the AUX jacks.

For digital recording: Connect;

- Between the optical digital output terminal on the other equipment and the AUX DIGITAL IN OPTICAL terminal, by using an optical digital cord (not supplied).
- Between the audio output jacks on the other equipment and the AUX jacks, by using an audio cord (not supplied).

Insert a recordable MD.

The MD IN lamp lights.

Press AUX once, then start playing the source.

3 Press REC PAUSE on the unit (or MD REC PAUSE on the remote control).

The REC lamp on the unit starts flashing.

4 Press AUX again.

• Each time you press the button, analog or digital input is selected alternately.



- If you select the digital input, the DIGITAL lamp on the unit lights.
- DIGITAL: Enables digital recording through the optical digital cord connected to the AUX DIGITAL IN OPTICAL terminal. A sampling rate converter built in this unit allows you to record from a digital device whose sampling frequency is 32 kHz, 44.1 kHz, or 48 kHz.
- ANALOG: Enables analog recording through the audio cord connected to the AUX jacks.

Press MD ►/II.

The REC lamp stops flashing and remains lit, and recording starts.

To stop recording, press \blacksquare of the MD control.

To stop recording temporarily, press REC PAUSE (or MD REC PAUSE) again.

To resume recording, press MD ►/II again.

To remove the MD, press ▲.

Recording CDs

You have 3 methods to record from a CD onto an MD.

- Synchronized Recording Records the entire CD or the program you have made.
- **First Track Recording** Records the first track of each CD.
- Listening Edit Recording Allows you to make a program while listening to the CD.

Synchronized Recording

This is the easiest way of CD recording. Only by pressing CD REC, you can start playing a CD and recording on an MD.

Insert a recordable MD.

The MD IN lamp lights.

2 Prepare a CD.

- Place a CD on one of the disc tray (CD 1, CD 2, or CD 3), press the corresponding Disc Number button (CD 1, CD 2, or CD 3), then of the CD control before going to the next step. Make sure that the correct Disc Number lamp lights on the unit.
- You can make a program if you want (see page 16).

3 Press CD REC on the unit.

The REC and DIGITAL lamps on the unit light.



To stop recording, press \blacksquare (of either the CD control or the MD control).

To record a single track while playing a CD

Press CD REC while playing back a CD track you want to record.

The playback of that CD track is stopped, and the same track starts playing from the beginning again. This time, the MD recorder starts recording the CD track.

First Track Recording

First Track Recording allows you to record the first track of each loaded CD. You can, for example, make a directory of all your best CDs.

Prepare CDs, and a recordable MD.

• Always place a CD on the CD 1 tray. If not, this function does not work.

Press 1ST TRACK REC.

The REC and DIGITAL lamps light, and First Track Recording starts from the CD on the CD 1 tray.



When the first track of the CD on the CD 1 tray is recorded, the first track of the CD on the CD 2 tray will be recorded. Recording continues until the first track of each loaded CD is recorded.



Replace the CDs on the trays whose disc number lamp does not light green.

• You can change CDs to continue the First Track Recording using more than 3 CDs.

When the first track of the last loaded CD is recorded, First Track Recording stops.

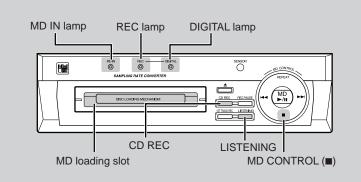
To stop recording, press \blacksquare (of either the CD control or the MD control).



Amplifier/tuner



MD recorder



Listening Edit Recording

Listening Edit Recording allows you to make a program while listening and checking each track of the loaded CDs, then to start recording the program.

• You can program up to 32 tracks.

Prepare CDs, and a recordable MD.

• Always place a CD on the CD 1 tray. If not, this function does not work.

Z Press LISTENING.

Listening Edit starts from the CD on the CD 1 tray.



Decide if you want to include the current track in the program or skip it.

- To include the current playing track in the program, press LISTENING again. The current track is programed ("Memory" appears for a while) and the next track starts playing. (If the last track of a CD is programed, the first track of the next CD starts playing.)
- To skip the current track, rotate MULTI JOG downward or press ►►I of the CD control. The current playing track is not programed and the next track starts playing.

If you do not either press the button or rotate MULTI JOG, the unit will play the same track repeatedly.



Repeat step 3 to program other tracks.

When you finish checking all CDs or if there is no more remaining time for recording on the MD, Listening Edit Recording starts automatically. The REC and DIGITAL lamps light.

To stop any time during editing process and start recording, press CD REC.

To stop recording, press \blacksquare (of either the CD control or the MD control).

To erase the program, press \blacksquare of the CD control while checking the contents of the loaded CDs.

To modify the program

Before you start recording (or move to the next disc programming), you can go back to a previous track of the currently programming disc by pressing I◄◄ of the CD control (programmed tracks, up to the track you have returned to, are erased from the program). Start programming from that track again.

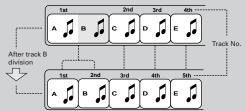
• By rotating MULTI JOG downward, you can also go back to a previous track of the currently programming disc.

Introducing MD Editing Functions

A recorded MD can be edited in many ways. The MD editing functions include dividing, joining, moving, erasing a single track, erasing the entire disc, and more than one of them can be combined as required.

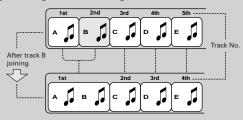
Dividing a track (DIVIDE) : Page 29

This function divides a track by adding a track marking(s) in the desired point(s) in the middle or where you want to search later.



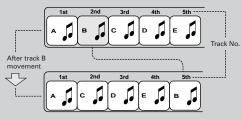
Joining a track (JOIN) : Page 30

This function joins two adjacent tracks into a single track by deleting a track marking.



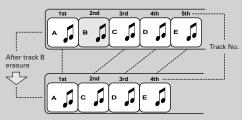
Moving a track (MOVE) : Page 31

This function moves a track by reordering the track numbers.



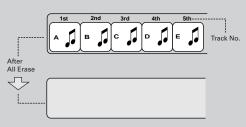
Erasing a track (ERASE) : Page 32

This function erases a specified track. After the erasure, the subsequent tracks are justified and their track numbers are decremented automatically.



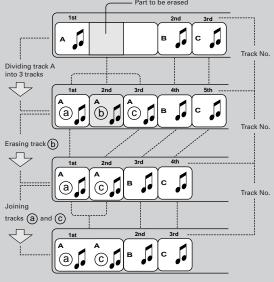
Erasing all tracks (ALL ERASE) : Page 33

This function erases data in a disc entirely.



Combining MD editing functions

By combining "DIVIDE", "ERASE" and "JOIN", for example, it is possible to erase only a part of an existing track.



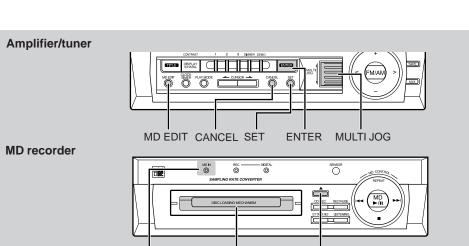


You can also assign titles to MDs and/or tracks (See page 34.)

A title can be assigned to a track or disc. Once a title is assigned it is displayed in later playback for confirmation.

Each title can be composed of up to 64 characters, and can be input using alphabetic characters (uppercase and lowercase), symbols and numerals.





MD Loading slot

DIVIDE Function

This function allows you to divide one track into two separate tracks. It is useful, for example, when you want to add track marks at a certain point within a track or if you want to separate a recording.

MD IN lamp

- To do the following procedures, use the buttons and controls on the unit.
- To stop any time during editing process, press MD EDIT.

Insert an MD you want to edit into the MD loading slot.

The MD IN lamp lights.

Press MD EDIT.

The MD recorder enters editing mode (with DIVIDE function selected).



Press SET.

The information of the first track (or the current track, if during play) of the MD appears in the main display, and playback starts.

Rotate MULTI JOG to select the track you want to divide.

Ex. When you want to divide track 3

3:14 3 MU SANG

columnes

· If you have selected a wrong track, press CANCEL then select the correct track.

Press SET when you find the point where you want to divide the track.

The MD recorder repeats the selected point - a portion of 3 seconds length following the dividing point.

Ĩ.

- If the dividing point is satisfactory, go to step 7.
- If the dividing point is not satisfactory, go to the next step

Rotate MULTI JOG to precisely adjust the dividing point.

• You can shift the dividing point up to ± 128 . This range (± 128) corresponds to approximately ± 8 seconds from the original point (Position 0).

When you stop rotating the MULTI JOG dial, the unit repeats the newly selected dividing point.

• When you find the right position, go to the next step.



VES→ ENTER NO→CANCEL <DIVIDE>

• If you want to cancel the editing, press CANCEL.

Press ENTER to finish the editing procedures.

EDITING

(DTUTDE)

Press \triangleq to eject the MD.

"WRITING" appears while the editing you have made is being recorded on the MD.

To join the divided tracks again, see the JOIN function.

JOIN Function

This function allows you to join two adjacent tracks into one track.

- · To do the following procedures, use the buttons and controls on the unit.
- To stop any time during editing process, press MD EDIT.

Insert an MD you want to edit into the MD loading slot.

The MD IN lamp lights.

Press MD EDIT.

The MD recorder enters editing mode (with DIVIDE function selected).



Rotate MULTI JOG until "JOIN" is selected.



Press SET.

Rotate MULTI JOG to select the two adjacent tracks you want to join.

Ex.: When joining tracks 1 and 2





Press SET.



- · If you have selected wrong tracks, press CANCEL, then select the correct tracks by rotating MULTI JOG.
- If you want to cancel the editing, press CANCEL.

Press ENTER to finish the editing procedures.

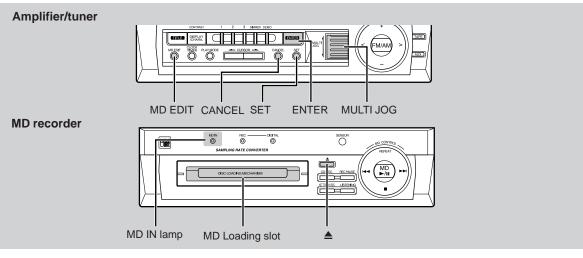
EDITING

<JNTN>

Press \triangleq to eject the MD.

"WRITING" appears while the editing you have made is being recorded on the MD.

To divide the joined tracks, see the DIVIDE function.



MOVE Function

This function allows you to move a track to the position you prefer. It is useful to change the order of the tracks as you like.

- To do the following procedures, use the buttons and controls on the unit.
- To stop any time during editing process, press MD EDIT.

7 Insert an MD you want to edit into the MD loading slot.

The MD IN lamp lights.

Press MD EDIT.

The MD recorder enters editing mode (with DIVIDE function selected).



Rotate MULTI JOG until "MOVE" is selected.



Rotate MULTI JOG to select the track you want to move.

Ex.: When moving track 2



Press SET.

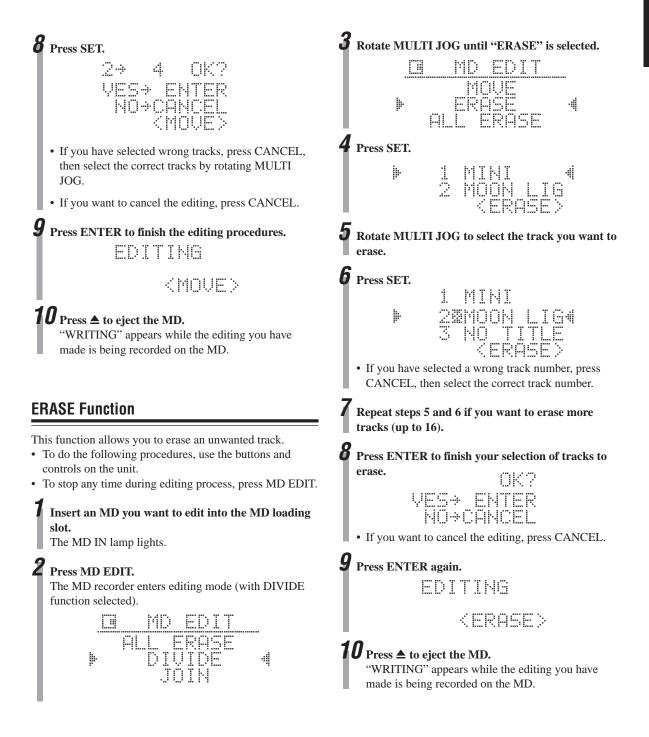


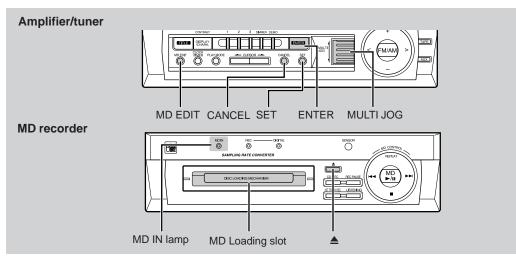
• If you have selected a wrong track number, press CANCEL, then select the correct track number again.

Rotate MULTI JOG to select the position where you want to move the track.

Ex.: When moving to the track 4 position







ALL ERASE Function

This function allows you to erase all the tracks on an MD.

- To do the following procedures, use the buttons and controls on the unit.
- To stop any time during editing process, press MD EDIT.

Insert an MD you want to edit into the MD loading slot.

The MD IN lamp lights.

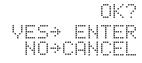
Press MD EDIT.

The MD recorder enters editing mode (with DIVIDE function selected).

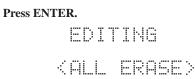
Rotate MULTI JOG until "ALL ERASE" is selected.



Press SET.



• If you want to cancel the editing, press CANCEL.



Press \triangleq to eject the MD.

"WRITING" appears while the editing you have made is being recorded on the MD.

Erasing a Portion of a Track

You can erase just a portion of one track by using the DIVIDE, ERASE and JOIN functions.

- · To do the following procedures, use the buttons and controls on the unit.
- To stop any time during editing process, press MD EDIT.

Insert an MD you want to edit into the MD loading slot.

The MD IN lamp lights.

Press MD EDIT.

The MD recorder enters editing mode (with DIVIDE function selected).

Divide a track into 3 portions to isolate the portion to erase.

• Use the DIVIDE function by referring to page 29.

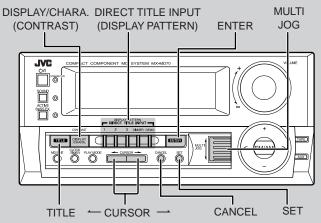
Erase the middle portion.

• Use the ERASE function by referring to page 32.

Join the two remaining portions.

• Use the JOIN function by referring to page 30.

Amplifier/tuner



MD recorder

You can assign a name to each MD and to each track. Once a title is assigned, it is displayed in later playback for confirmation.

Each title can be composed of up to 64 characters, and can be input using alphabetic characters (uppercase and lowercase), symbols and numerals.

Assigning a Title Using the Unit

- To stop any time during the process, press TITLE.
 - Insert an MD you want to edit into the MD loading slot.

The MD IN lamp lights.

2 Press TITLE.

The MD recorder enters title entry mode.

• **Disc title entry indication (mode):** appears when you press TITLE while the disc information is shown in the main display.

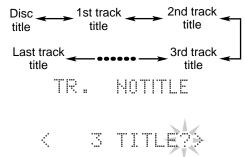
DISC NOTITLE



• **Track title entry indication (mode):** appears when you press TITLE while the track information is shown in the main display.

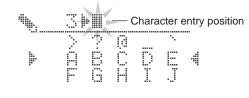


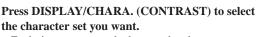
- Rotate MULTI JOG to change the title entry mode.
 - Title entry mode changes as follows:



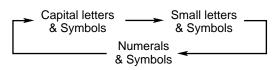
Ex.: When selecting 3rd track title entry mode

Press SET to enter the selected title entry mode.



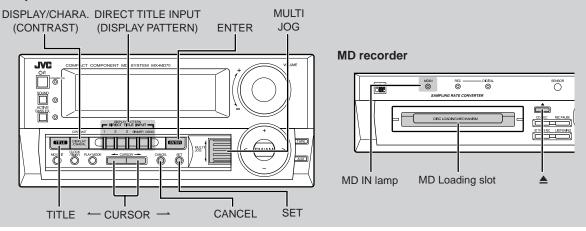


• Each time you press the button, the character sets change as follows:



See the character set table on page 36 to know what characters and symbols you can use.

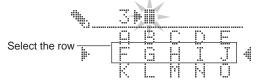
Amplifier/tuner



Continued

b Input a character.

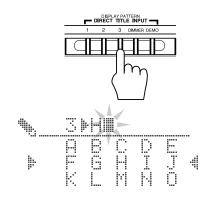
- EX. When entering "H"
- 1) Rotate MULTI JOG to select the row where a character you want exists.
 - In this example, select the row of "F G H I J."



2) Press one of the DIRECT TITLE INPUT buttons to select the character position in the row.

The selected character is input, and the character entry position moves to the next.

• In this example, press 3 which corresponds to "H" in the row of "F G H I J."



- To move the character entry position while entering a title, press CURSOR —.
- If you have entered an incorrect character, press CANCEL to cancel the last entry.

Repeat steps 5 and 6 to input other characters.

• The main display can only show 7 characters at a time. If you enter the 8th character, the first character disappears, and so on.

Press ENTER twice to finish title entry.

• If you want to cancel the editing, press TITLE after pressing ENTER once in this step.

Press \blacktriangle to eject the MD.

"WRITING" appears while the editing you have made is being recorded on the MD.



You can assign titles during play or recording

• During play: Entering a track title

The MD recorder repeats playback of the current track until you press ENTER twice in step 8 above. When you press it twice, MD stops play. **Entering a disc title**

The MD recorder repeats playback of all tracks of the MD until you press ENTER twice in step 8 above. When you press it twice, MD stops play.

• During recording: Entering a track title

The MD recorder continues recording even after you press ENTER twice in step 8 above. When you press it twice, a track title is assigned to the track where you have started the title entry.

lish

Changing the Title

You can make a correction or change the title.

Follow steps 1 to 4 of page 34.

- Press CURSOR -to select the character you want to correct.
- Make sure that the character you want to change is flashing.

Press CANCEL to delete the character you have selected in the above step.

4 Input the correct character.

- 1) Press DISPLAY/CHARA. (CONTRAST) to select the character set you want.
- 2) Rotate MULTI JOG then press one of the DIRECT TITLE INPUT buttons.

b Repeat steps 2 to 4 of the current procedure to correct more characters.

6 Press ENTER twice to finish correcting the title.

• If you want to cancel the correction, press TITLE after pressing ENTER once in this step.

Press \blacktriangle to eject the MD.

"WRITING" appears while the editing you have made is being recorded on the MD.

To erase all the characters

Press CANCEL repeatedly in step 3 above to erase all the characters, then go to step 6.

Available Characters

Capit	al	lette	ers	&	Symb	ols

Α	В	С	D	Е
F	G	Н	—	J
Κ		Μ	Ν	0
Ρ	Q	R	S	Т
U	V	W	Х	Υ
Ζ		l (Bla	ank)	
(Blank)	!	"	#	\$
%	&	,	()
*	+	,	-	-
/	•	;	<	=
	-	· ·	•	

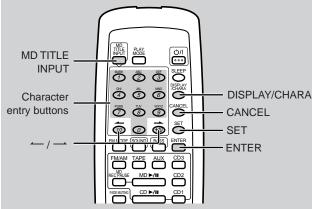
Small letters & Symbols

а	b	с	d	е
f	g	h	i	j
k		m	n	0
р	q	r	S	t
u	V	w	х	у
z		(Bla	ank)	
(Blank)	!	"	#	\$
%	&	,	()
*	+	,	_	
/	:	;	<	=
>	?	@		`

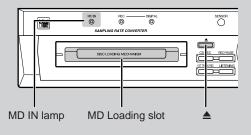
Numerals & Symbols

0	1	2	3	4
5	6	7	8	9
(Blank)	!	"	#	\$
%	&	,	()
*	+	,	_	-
/	:	•	<	=
$\left \right>$?	@		/

Remote control



MD recorder



Assigning a Title Using the Remote Control

- To stop any time during the following process, press MD TITLE INPUT.
 - Insert an MD you want to edit into the MD loading slot on the unit.

The MD IN lamp lights.

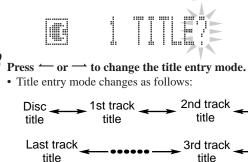
Z Press MD TITLE INPUT.

The MD recorder enters title entry mode.

• **Disc title entry indication (mode):** appears when you press MD TITLE INPUT while the disc information is shown in the main display.



• **Track title entry indication (mode):** appears when you press MD TITLE INPUT while the track information is shown in the main display.





Press SET to enter the selected title entry mode.

• Each time you press the button, the character sets change as follows:

→ Capital letters → Small letters →

Input a character.

1) Press the character entry button for a character you want to input.

Examples:

• To input an "A" or "a," press ABC once. To input a "B" or "b," press ABC twice. To input a "C" or "c," press ABC three times.

To input a "D" or "d," press DEF once. To input an "E" or "e," press DEF twice. To input an "F" or "f," press DEF three times.

- To input a symbol, press MARK repeatedly until the desired mark appears.
- To move the character entry position while entering a title, press or —.
- If you have entered an incorrect character, press CANCEL to cancel the last entry.



- 2) Press the button for the next character you want to input.
 If the next character you want to input is assigned
 - If the next character you want to input is assigned to the same button you have just pressed in step 6-1), press — first to move the character entry position to right.

Repeat steps 5 and 6 to input other characters.

• The main display can only show 8 characters at a time. If you enter the 9th character, the first character disappears, and so on.

Press ENTER twice to finish the title entry.

• If you want to cancel the editing, press MD TITLE INPUT after pressing ENTER once in this step.

Press \triangleq on the unit to eject the MD.

"WRITING" appears while the editing you have made is being recorded on the MD.



You can assign titles during play or recording During play: Entering a track title

The MD recorder repeats playback of the current track until you press ENTER twice in step 8 above. When you press it twice, MD stops play. **Entering a disc title**

The MD recorder repeats playback of all tracks of the MD until you press ENTER twice in step 8 above. When you press it twice, MD stops play.

• During recording: Entering a track title

The MD recorder continues recording even after you press ENTER twice in step 8 above. When you press it twice, a track title is assigned to the track where you have started the title entry.

Changing the Title

You can make a correction or change the title.

Follow steps 1 to 4 of page 37.

Press ← or → to select the character you want to correct.

• Make sure that the character you want to change is flashing.

Press CANCEL to delete the character you have selected in the above step.

Input the correct character by pressing one of the text entry buttons.

Repeat steps 2 to 4 of the current procedure to correct more characters.

- **6** Press ENTER twice to finish correcting the title.
 - If you want to cancel the correction, press MD TITLE INPUT after pressing ENTER once in this step.
 - Press \triangleq on the unit to eject the MD.

"WRITING" appears while the editing you have made is being recorded on the MD.

To erase all the characters

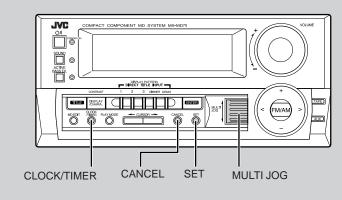
Press CANCEL repeatedly in step 3 above to erase all the characters, then go to step 6.

Available Characters

Capita	al lette	ers			Sm	nall	letter	s			Nume	erals				Symb	ols			
Α	В	С	D	Е	6	a	b	с	d	е	0	1	2	3	4	(Blank)	!	"	#	\$
F	G	Н	I	J	1	f	g	h	i	j	5	6	7	8	9	%	&	,	()
K	L	Μ	Ν	0	ł	<		m	n	0						*	+	,	_	
Ρ	Q	R	S	Т	K	c	q	r	s	t						/	:	;	<	=
U	V	W	X	Y	ι	J	V	w	x	у						>	?	@		\mathbf{i}
Ζ						Ζ											•	•		

Using the Timers

Amplifier/tuner



There are three timers available - Recording Timer, Daily Timer, and Sleep Timer.

Before using these timers, you need to set the clock built in the unit. (See page 10.)

Using Recording Timer

With Recording Timer, you can make an MD of a radio broadcast automatically.

- You can set Recording Timer whether the unit is turned on or off.
- To correct a mis-entry any time during the setting process, press CANCEL.

How Recording Timer actually works

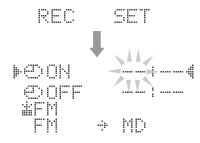
The unit automatically turns on, tunes into the specified station, turns off the volume, and starts recording on the MD recorder when the timer-on time comes. Then, when the timer-off time comes, the unit automatically turns off (stands by).

The timer settings remain stored in memory until you reset them or disconnect the AC power cord.

Press CLOCK/TIMER repeatedly until "REC SET" appears in the main display.

• Each time you press the button, the timer mode changes as follows:

► DAILY ON/OFF? → DAILY SET → REC ON/OFF? - Previous indication - Clock - REC SET



Rotate MULTI JOG to set the hour of the timer-on time, then press SET.

Rotate MULTI JOG to set the minute of the timeron time, then press SET.

Rotate MULTI JOG to set the hour of the timer-off time, then press SET.

Rotate MULTI JOG to set the minute of the timeroff time, then press SET.



Rotate MULTI JOG to select either "FM" or "AM," then press SET.

Rotate MULTI JOG to select a preset channel, then press SET.



After completing the settings...

The REC indicator lights on the display window, and Recording Timer is ready for unattended recording.

After a timer recording is complete...

Set the volume to an appropriate listening level.

If you press a certain button while Recording Timer notes is operating Recording will stop.

To use the same Recording timer settings repeatedly

Once you have set Recording Timer, it remains stored in memory until you change it.

To activate Recording Timer with the previous settings recalled, follow the procedure below:

Press CLOCK/TIMER repeatedly until "REC ON/ 1 OFF?" appears in the main display.



Press SET to use the previous settings for next timer 2 recording.

The REC indicator lights on the display window.

• To deactivate Recording Timer, press CANCEL in this step.

Using Daily Timer

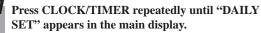
With Daily Timer, you can wake up to your favorite music or radio program.

· You can set Daily Timer whether the unit is turned on or off.

How Daily Timer actually works

The unit automatically turns on, and starts playing the specified source when the timer-on time comes. Then, when the timer-off time comes, the unit automatically turns off (stands by).

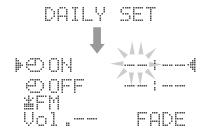
The timer settings remain stored in memory until you reset them or disconnect the AC power cord.



• Each time you press the button, the timer mode changes as follows:

► DAILY ON/OFF? → DAILY SET → REC ON/OFF?

- Previous indication - Clock - REC SET

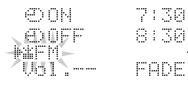


Rotate MULTI JOG to set the hour of the timer-on time, then press SET.

Rotate MULTI JOG to set the minute of the timeron time, then press SET.

Rotate MULTI JOG to set the hour of the timer-off time, then press SET.

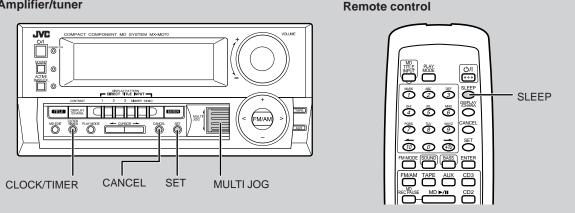
Rotate MULTI JOG to set the minute of the timeroff time, then press SET.



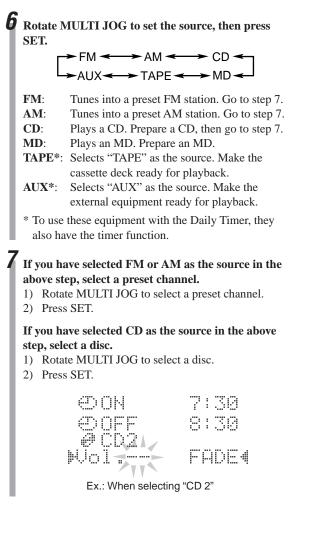
7:30

Continued

Amplifier/tuner



Continued



Rotate MULTI JOG to set the volume level, then press SET.

• You can adjust the volume within the range of "00" to "50." If you select "--," the volume is set to the previous level when the unit is turned off.



Rotate MULTI JOG to select either "FADE" or " NO FADE," then press SET.

FADE: Volume fades in (gradually becomes louder and is set to the specified level) when the timer-on time comes.

NO FADE: No fade-in effect. Volume is set to the specified level when the timer-on time comes.

After completing the settings...

The DAILY indicator lights on the display window. Turns off the unit (on standby) if you have set Daily Timer with the unit turned on.

If you press a certain button while Daily Timer is notes operating

The unit will not turn off automatically.



To use the same Recording timer settings repeatedly

Once you have set Daily Timer, it remains stored in memory until you change it.

To activate Daily Timer with the previous settings recalled, follow the procedure below:

Press CLOCK/TIMER repeatedly until "DAILY 1 ON/OFF?" appears in the main display.



- 2 Press SET to activate Daily timer.
 - To deactivate Daily Timer, press CANCEL in this step.

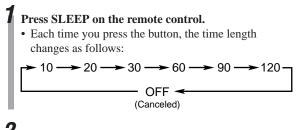
Using Sleep Timer

With Sleep Timer, you can fall asleep to your favorite music.

You can set Sleep Timer when the unit is turned on.

How Sleep Timer actually works

The unit automatically turns off after the specified time length passes.



Wait for about 3 seconds after specifying the time length.

The display window dims.

To check the remaining time until the shut-off time, press SLEEP once. The remaining time until the shut-off time appears for about 5 seconds.

To change the shut-off time, press SLEEP repeatedly until the desired time length appears.

To cancel the setting, press SLEEP repeatedly until "SLEEP OFF" appears.

· Turning off the unit also cancels Sleep Timer

Timer Priority

Since each timer can be set separately, you may wonder what happens if the setting for these timers overlaps. Here are the priorities for each timer.

· Recording Timer has priority over Daily Timer and Sleep Timer.

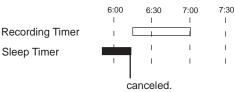
If Daily Timer is set to come on while Recording Timer is operating, Daily Timer will not come on at all.

Recording Timer Daily Timer



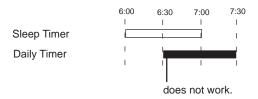
ī. 1

If Recording Timer is set to come on while Sleep Timer is operating, Sleep Timer will be canceled several seconds before Recording Timer comes on.



· Sleep Timer has priority over Daily Timer.

If Daily Timer is set to come on while Sleep Timer is operating, Daily Timer will not come on at all.



Therefore, the equation is like this -----

Recording Timer > Sleep Timer > Daily Timer

Maintenance

To get the best performance of the unit, keep your discs and mechanism clean.

General Notes

In general, you will have the best performance by keeping your CDs, MDs and the mechanism clean.

- Store CDs and MDs in their cases, and keep them in cabinets or on shelves.
- Keep the CD disc compartment, and the MD loading slot cover closed when not in use.

Handling CDs



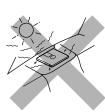
- Remove the CD from its case by holding it at the edge while pressing the center hole lightly.
 Do not touch the china surface of
- Do not touch the shiny surface of the disc, or bend the CD.
- Put the CD back in its case after use to prevent warping.



- Be careful not to scratch the surface of the CD when placing it back in its case.
- Avoid exposure to direct sunlight, temperature extremes, and moisture.



Handling MDs



- Do not open the shutter.
 The shutter is locked so that it
 - The shutter is locked so that it will not open. Trying to force it open will break the MD. If the shutter opens accidentally, close it again quickly without touching the MD inside.
- Do not place MDs in the following places:
 - High temperature areas such as in direct sunlight or inside a car.
 - High humidity areas, e.g. in a bathroom.
 - On a beach or sandy area.
- Clean MDs regularly.
 - If dust or dirt gets on cartridge, wipe it off with a soft dry cloth.



To clean the CD

Wipe the CD with a soft cloth in a straight line from center to edge.



DO NOT use any solvent — such as conventional record cleaner, spray, thinner, or benzine — to clean the CD.

MD Disc Types

There are two types of MDs: Premastered (prerecorded) and Recordable (blank).

Premastered MDs

Premastered MDs, which have been recorded at music studio, can be played back like regular CDs. On an MD of this type, data is recorded as the presence or absence of tiny pits. A laser beam focuses on the pits on the surface of the MD and reflects the detection back to the lens in the MD recorder. The MD recorder then decodes the signals and plays them back as music. This type of MD is called an "optical disc."

Recordable MDs

Recordable MDs, which use magneto-optical technology, can be recorded and played back repeatedly. The laser inside the MD recorder applies heat to the MD, demagnetizing the magnetic layer of the MD for recording and playback. This type of MD is called an "magnetic-optical disc."

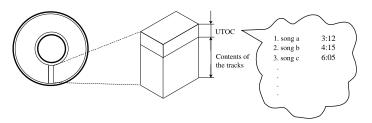
ATRAC (Adaptive TRansform Acoustic Coding)

The MD provides 74 minutes recording and playback time, the same as an audio CD, but in a diameter of only 64 mm. This ability to store such a large amount of data is the result of ATRAC, an audio compression technique developed for MD. This technology cuts out faint sounds that would not be heard by the human beings. This technology, based on human sensitivity to sounds, reduces recorded data volume up to about one-fifth of that of the original data.

UTOC (User Table Of Contents)

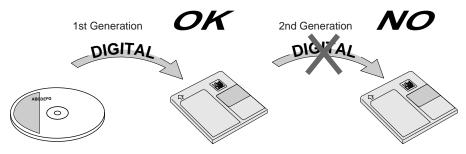
Found only on recordable MDs, this area contains sub-data (track number, recording data, etc.) which can be rewritten by the user.

UTOC enables us to search tracks quickly and edit tracks on the MD.



SCMS (Serial Copy Management System)

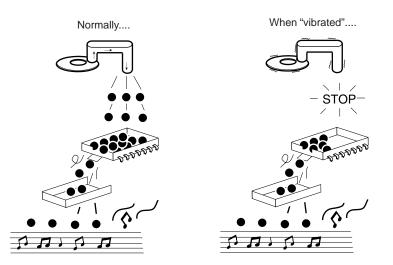
The MD recorder integrated to this unit uses the Serial Copy Management System which allows only first-generation digital copies to be made of premastered software (like CDs or prerecorded MDs).





The biggest weakness of discs is their susceptibility to vibration. The "Sound Skip Guard Memory" has been developed to cope with this weakness.

With this function, a few seconds of signals read by the optical read head from the disc are first stored in memory before being reproduced as audio signals. Thus, even when vibration or shock interrupts signals being read, these stored signals can continue to reproduce sounds for the few seconds. Thus, the user will enjoy uninterrupted music.



MD limitations

The MD records data in an original format that differs from that of conventional cassette tapes or DATs. Since there are some limitations with this recording format, the following types of symptoms may occur. These symptoms are not malfunctions.

Symptoms	Cause
"DISC FULL" appears, even though there is still enough remaining time on an MD.	There is a maximum number of tracks which can be recorded, regardless of recording time. More than 254 tracks cannot be recorded on an MD.
"DISC FULL" appears even though the number of tracks and recording time do not reach the limit.	• Repeating erasure and recording on the same MD creates many blank portions sparsely on the MD. When record- ing on such an MD, a track is recorded on these blank
The JOIN function sometimes does not work.	portions sparsely. If a track is divided and recorded into so many portions, "DISC FULL" appears.If a divided portion of less than 8 seconds is made while
The remaining time on the MD does not increase even when tracks are erased.	a track is recorded on the MD, that track cannot be joined to another track using the JOIN function. Further- more, if that track is erased, the remaining time of the
The sound drops out during fast forward or fast rewind.	MD may not increase exactly by the erased amount.If a track has been divided into many portions while being recorded on the MD, sounds will drop out while fast forwarding or reversing such an MD.
The amount of recorded time on the MD added to the amount of remaining time is shorter than the MD's total possible recording time.	You cannot record on a blank portion of less than 2 seconds in the MD. For this reason, the actual recording time of discs may become shorter.

If you are having a problem with your unit, check this list for a possible solution before calling for service. If you cannot solve the problem from the hints given here, or the unit has been physically damaged, call a qualified person, such as your dealer, for service.

Symptom	Possible Cause	Action				
No sound is heard.	Connections are incorrect, or loose.	Check all connections and make corrections. (See pages $6 - 9$.)				
Unable to record on an MD.	• You are using a prerecorded MD.	• Change it with a recordable MD.				
	• The MD is write-protected.	• Unprotect the MD. (See page 47.)				
Poor radio reception.	The antenna is not connected correctly.	Reconnect the antenna securely.				
	• The AM loop antenna is too close to the unit.	• Change the position and direction of the AM loop antenna.				
	• The FM antenna is not properly extended and positioned.	• Extend FM antenna to the best reception position.				
The CD skips.	The CD is dirty or scratched.	Clean or replace the CD. (See page 43.)				
Unable to operate the remote control.	• The path between the remote control and the remote sensor on the unit is blocked.	Remove the obstruction.				
	• The batteries have lost their charge.	• Replace the batteries.				
The number buttons and CD/MD/tuner control buttons on the remote control do not function correctly.	The operation modes for the unit and for the remote control do not match.	Match them correctly.				
Loaded CDs and MD cannot be ejected.	• The main AC power cord is not plugged in.	• Plug in the AC power plug.				
	• The Disc Lock function is turned on.	• Turn off the Disc Lock function. (See page 18.)				
The CD does not play.	The CD is upside down.	Put the CD in with the label side up.				
Operations are disabled.	The built-in microprocessor has malfunctioned due to external electrical interference.	Unplug the unit then plug it back in.				



MD Messages

Message	Signification	Solution			
BLANK DISC	The disc is blank.	Change the MD with another if you want to enjoy playback.			
CANNOT JOIN	You are trying to join tracks which cannot be joined.	This is not a malfunction. (See MD limitations on page 45.)			
DISC ERROR	There is a problem with this MD.	Change the MD.			
DISC FULL	There is no more space on the MD or there are over 254 tracks.	Use another recordable MD or erase some tracks.			
EMERGENCY STOP	A malfunction has occurred during the recording.	Eject the MD and re-insert it.			
MD NO DISC	There is no MD.	Put an MD.			
NON-AUDIO CANNOT COPY	You are trying to copy a non-audio disc like a CD-ROM or a Video CD.	Stop recording.			
PLAYBACK MD	You are trying to edit or record on a playback-only MD.	Use a recordable MD.			
DISC PROTECTED	The MD is write-protected.	Unprotect the MD or use another. (See page 23.)			
SCMS CANNOT COPY	Digital copy of the 2nd generation is prohibited.	Use an analog recording method.			
DIGITAL IN UNLOCK	There is no digital device connected to the AUX DIGITAL IN OPTICAL terminal.	Connect a digital device using digital optical cord.			



Amplifier

Output Power (IEC 268-3/DIN) 35 watts per channel, min. RMS, both channels driven into 6 ohms at 1 kHz with no more than 0.9% total harmonic distortion.

Audio input sensitivity/Impedance (at 1 kHz) Analog input: TAPE 200 mV/47 kohms AUX 500 mV/47 kohms Digital input: AUX: Optical Signal wave length: 660 nm Input level: -23 dBm to -15 dBm (With the built-in sampling rate converter, corresponding to 32 kHz/

Audio output level/Impedance (at 1 kHz) TAPE 170 mV/3.9 kohms

Speakers/Impedance: 6 ohms

Tuner

FM tuning range: 87.50 — 108.00 MHz AM tuning range: 531 — 1,602 kHz (at 9 kHz channel spacing) 530 — 1,710 kHz (at 10 kHz channel spacing)

44.1 kHz/48 kHz)

CD player

CD Capacity:	3 CDs
Dynamic range:	92 dB
Signal-to-noise ratio:	100dB
Wow and flutter:	Immeasurable

MD recorder

Audio playing system:	MiniDisc digital audio system			
Recording system:	Magneto-optical overwrite system			
Reading system:	Non-contact, semiconductor laser pickup (λ =780 nm)			
Error correction system:	CIRC (Cross Interleave Reed- Solomon Code)			
Sampling frequency:	44.1 kHz (With sampling rate converter for recording — 32 kHz/44.1 kHz/ 48 kHz)			
Audio compression system:				

ATRAC (Adaptive TRansform Acoustic Coding)

General

aonorai	
Power requirement:	
For Singapore and	Hong Kong:
	AC 110V/127V/220V/
	230V (adjustable with the voltage
	selector), 50/60 Hz
For other countries	:
	AC 110V/127V/220V/
	230–240V \bigcirc (adjustable with the
	voltage selector), 50/60 Hz
Power consumption:	105 watts (at operation)
	11 watts (on standby: with Demo
	off)
	15 watts (on standby: with Demo
	on)
Maximum power const	umption (for Taiwan only)
	240 watts
Dimensions (approx.):	245 x 280 x 346 mm (W/H/D)
	(9 ¹¹ / ₁₆ x 11 ¹ / ₁₆ x 13 ⁵ / ₈ in.)
Mass (approx.):	7.8 kg (17.2 lbs)

Supplied accessories

See page 6.

Design and specifications are subject to change without notice.

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