

aiwa

DVD STEREO SYSTEM
SISTEMA ESTEREO DVD
CHAINE STEREO AVEC LECTEUR DE DVD

XR-DV5

OPERATING INSTRUCTIONS
MANUAL DE INSTRUCCIONES
MODE D'EMPLOI

En (English)

E (Español)

F (Français)

For assistance and information

call toll free 1-800-BUY-AIWA

(United States and Puerto Rico)

8Z-DJV-903-01
990825AMI-U-0

U

dts[®]
DIGITAL OUT

COMPACT
disc
DIGITAL AUDIO

COMPACT
disc
DIGITAL VIDEO

DVD
VIDEO™

NOTE/NOTA/REMARQUE

When connecting to your TV set, use the supplied video cord with the appropriate plug. Be sure to plug in the end with the ferrite core to the main unit.

Cuando haga la conexión a su TV, utilice el cable de video suministrado que tenga la clavija apropiada. Asegúrese de enchufar el extremo con el núcleo de ferrita en la unidad principal.

Lors de la connexion au téléviseur, utiliser le cordon vidéo fourni muni des fiches appropriées. Veiller à brancher l'extrémité munie du noyau en ferrite à l'appareil principal.

Connecting to a TV without an S-video input jack:

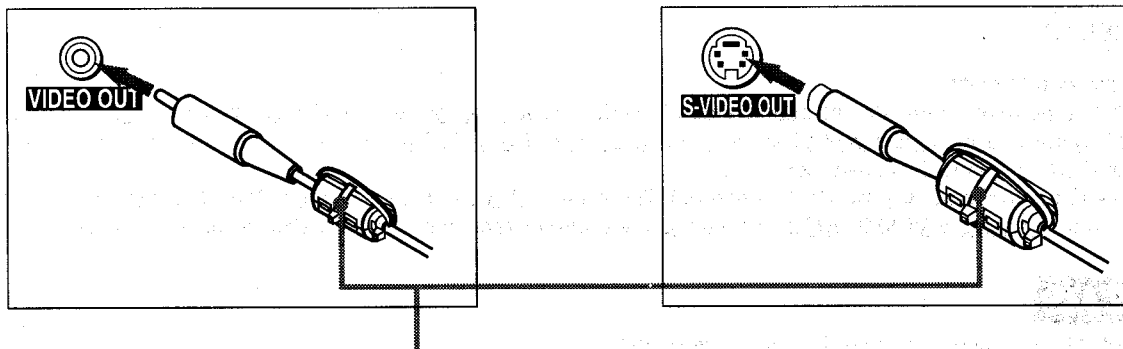
Conexión a un TV sin toma de entrada de video S:

Connexion à un téléviseur sans prise d'entrée S-vidéo:

Connecting to a TV with an S-video input jack:

Conexión a un TV con toma de entrada de video S:

Connexion à un téléviseur avec prise d'entrée S-vidéo:



Ferrite core/ Núcleo de ferrita/ Noyau en ferrite

Do not plug in both types of video cords at the same time.

No enchufe ambos tipos de cable de video al mismo tiempo.

Ne pas brancher les deux types de cordons vidéo en même temps.

ENGLISH

Please note the following correction to the Operating Instructions:

- An S-video connecting cord with a ferrite core is supplied as an accessory, while it does not appear in the list of accessories on page 6.
- The supplied standard video connecting cord with RCA plugs comes with a ferrite core, while its illustration in the list of accessories on page 6 does not have one.

Accordingly, please correct the following description in the Operating Instructions:

SETTING UP (Page 7)

INCORRECT

6 Connect the television set.

If your TV set does not have an S-video input jack: Connect one end of the supplied video connecting cord to the VIDEO OUT jack of this unit, and the other end to an appropriate VIDEO IN jack of your television set.

If your TV set has an S-video input jack: Connect one end of an optional S-video cord to the S-VIDEO OUT jack of this unit, and the other end to the S-VIDEO IN jack of your television set.

CORRECT

6 Connect the television set.

If your TV set does not have an S-video input jack: Use the supplied video connecting cord with RCA plugs. Connect the end with the ferrite core to the VIDEO OUT jack of this unit, and the other end to an appropriate VIDEO IN jack of your television set.

If your TV set has an S-video input jack: Use the supplied S-video cord. Connect the end with the ferrite core to the S-VIDEO OUT jack of this unit, and the other end to the S-VIDEO IN jack of your television set.

ESPAÑOL

Tenga en cuenta las siguientes correcciones para el manual de instrucciones:

- Se ha suministrado como accesorio un cable de conexión de video S con núcleo de ferrita, aunque éste no aparezca en la lista de accesorios de la página 6.
- El cable de conexión de video estándar suministrado que tiene clavijas RCA dispone de un núcleo de ferrita, aunque su ilustración de la lista de accesorios de la página 6 no lo tenga.

Por consiguiente, corrija por favor las descripciones siguientes en el manual de instrucciones:

PREPARACION (Página 7)

INCORRECTO

6 Conecte el televisor.

Si su TV no tiene una toma de entrada de video S: Conecte un extremo del cable de conexión de video suministrado a la toma VIDEO OUT de esta unidad, y el otro extremo a una toma VIDEO IN apropiada de su televisor.

Si su TV tiene una toma de entrada de video S: Conecte un extremo de un cable de video S opcional a la toma S-VIDEO OUT de esta unidad, y el otro extremo a la toma S-VIDEO IN de su televisor.

CORRECTO

6 Conecte el televisor.

Si su TV no tiene una toma de entrada de video S: Utilice el cable de conexión de video suministrado que tiene clavijas RCA. Conecte el extremo con el núcleo de ferrita a la toma VIDEO OUT de esta unidad, y el otro extremo a una toma VIDEO IN apropiada de su televisor.

Si su TV tiene una toma de entrada de video S: Utilice el cable de video S suministrado. Conecte el extremo con núcleo de ferrita a la toma S-VIDEO OUT de esta unidad, y el otro extremo a la toma S-VIDEO IN de su televisor.

FRANÇAIS

Prrière de noter la correction suivante dans le mode d'emploi:

- Un cordon de connexion S-vidéo muni d'un noyau en ferrite est fourni comme accessoire, alors qu'il n'apparaît pas dans la liste des accessoires de la page 6.
- Le cordon de connexion vidéo standard à fiches RCA est muni d'un noyau en ferrite, alors que son illustration dans la liste des accessoires de la page 6 n'en comporte pas.

En conséquence, prière de corriger la description suivante dans le mode d'emploi:

INSTALLATION (Page 7)

INCORRECT

6 Connecter le téléviseur.

Si le téléviseur utilisé ne possède pas de prise d'entrée S-vidéo: Connecter une extrémité du cordon de connexion vidéo fourni à la prise VIDEO OUT de cet appareil et l'autre extrémité à une prise VIDEO IN adéquate du téléviseur.

Si le téléviseur utilisé possède une prise d'entrée S-vidéo: Connecter une extrémité d'un cordon S-vidéo optionnel à la prise S-VIDEO OUT de cet appareil et l'autre extrémité à la prise S-VIDEO IN du téléviseur.

CORRECT

6 Connecter le téléviseur.

Si le téléviseur utilisé ne possède pas de prise d'entrée S-vidéo: Utiliser le cordon de connexion vidéo à fiches RCA fourni. Connecter l'extrémité munie du noyau en ferrite à la prise VIDEO OUT de cet appareil et l'autre extrémité à une prise VIDEO IN adéquate du téléviseur.

Si le téléviseur utilisé possède une prise d'entrée S-vidéo: Utiliser le cordon S-vidéo fourni. Connecter l'extrémité munie du noyau en ferrite à la prise S-VIDEO OUT de cet appareil et l'autre extrémité à la prise S-VIDEO IN du téléviseur.

NOTE/NOTA/REMARQUE

When entering the time setting to set the clock (page 38) or to set the timer (page 39) with the remote control, you cannot use the **ENTER** button as described in the Operating Instructions. To enter the time setting with the remote control, use the **||** button instead.

Quand on entre l'heure pour régler l'horloge (page 38) ou pour régler la minuterie (page 39) avec la télécommande, on ne peut pas utiliser la touche **ENTER** comme décrit dans le mode d'emploi. Pour entrer l'heure avec la télécommande, utiliser la touche **||** à la place.

Cuando introduzca el ajuste de la hora para el reloj (página 38) o para el temporizador (página 39) con el control remoto, usted no podrá utilizar el botón **ENTER** como se describe en las instrucciones. Para introducir el ajuste de la hora con el control remoto, utilice el botón **||**.

ENGLISH

There are some incorrect descriptions in the Operating Instructions as follows.

CHAPTER SEARCH (DVD ONLY) (Page 25)**· INCORRECT**

This operation can be performed either during playback or stop.

· CORRECT

This operation can be performed during playback.

TIME SEARCH (DVD ONLY) (Page 25)**· INCORRECT**

With DVDs that support display of elapsed time, you can locate a point in the disc by specifying the time from the beginning of this disc.

This operation can be performed either during playback or stop.

NOTE

· If you specify a time greater than the length of the disc, the Ⓞ symbol is displayed.

In this case, repeat from step 1 with a valid time.

· CORRECT

With DVDs that support display of elapsed time, you can locate a point in the title by specifying the time from the beginning of this title.

This operation can be performed during playback.

NOTE

· If you specify a time greater than the length of the title, the Ⓞ symbol is displayed.

In this case, repeat from step 1 with a valid time.

ESPAÑOL

En el manual de instrucciones hay algunas descripciones incorrectas como se indica a continuación.

BUSQUEDA DE CAPITULO (DVD SOLAMENTE) (Página 25)**· INCORRECTO**

Esta operación puede realizarse durante la reproducción o la parada.

· CORRECTO

Esta operación puede realizarse durante la reproducción.

BUSQUEDA CON TIEMPO (DVD SOLAMENTE) (Página 25)**· INCORRECTO**

Con DVDs que permiten visualizar el tiempo transcurrido, usted podrá localizar un punto del disco especificando el tiempo desde el comienzo de ese disco.

Esta operación puede realizarse durante la reproducción o la parada.

NOTA

· Si usted especificó un tiempo superior al de la duración del disco, el símbolo Ⓞ se visualizará.

En este caso, repita desde el paso 1 con un tiempo válido.

· CORRECTO

Con DVDs que permiten visualizar el tiempo transcurrido, usted podrá localizar un punto del título especificando el tiempo desde el comienzo de ese título.

Esta operación puede realizarse durante la reproducción.

NOTA

· Si usted especifica un tiempo superior al de la duración del título, el símbolo Ⓞ se visualizará.

En este caso, repita desde el paso 1 con un tiempo válido.

FRANÇAIS

Le mode d'emploi contient des descriptions incorrectes comme suit.

RECHERCHE DE CHAPITRE (DVD SEULEMENT) (Page 25)**· INCORRECT**

Cette opération est possible aussi bien pendant la lecture que pendant l'arrêt.

· CORRECT

Cette opération est possible pendant la lecture.

RECHERCHE TEMPORELLE (DVD SEULEMENT) (Page 25)**· INCORRECT**

Avec les DVD qui supportent l'affichage du temps écoulé, on peut localiser un point du disque en spécifiant le temps à partir du début de ce disque.

Cette opération est possible aussi bien pendant la lecture que pendant l'arrêt.

REMARQUE

· Si on spécifie un temps supérieur à la durée du disque, le symbole Ⓞ est affiché.

Le cas échéant, répéter à partir de l'étape 1 et spécifier un temps valide.

· CORRECT

Avec les DVD qui supportent l'affichage du temps écoulé, on peut localiser un point du titre en spécifiant le temps à partir du début de ce titre.

Cette opération est possible pendant la lecture.

REMARQUE

· Si on spécifie un temps supérieur à la durée du titre, le symbole Ⓞ est affiché.

Le cas échéant, répéter à partir de l'étape 1 et spécifier un temps valide.

ENGLISH

There are some incorrect descriptions in the Operating Instructions as follows.

SPECIFICATIONS (Page 56)

· INCORRECT

General

Power requirements 120 V AC, 60 Hz

Power consumption 185 W

· CORRECT

General

Power requirements 120 V AC, 60 Hz

Power consumption 180 W

ESPAÑOL

En el manual de instrucciones hay algunas descripciones incorrectas como se indica a continuación.

ESPECIFICACIONES (Página 56)

· INCORRECTO

Generalidades

Alimentació 120 V CA, 60 Hz

Consumo 185 W

· CORRECTO

Generalidades

Alimentació 120 V CA, 60 Hz

Consumo 180 W

FRANÇAIS

Le mode d'emploi contient des descriptions incorrectes comme suit.

SPECIFICATIONS (Page 56)

· INCORRECT

Généralités

Alimentation électrique 120 V, 60 Hz

Puissance absorbée 185 W

· CORRECT

Généralités

Alimentation électrique 120 V, 60 Hz

Puissance absorbée 180 W

NOTE/NOTA/REMARQUE

ENGLISH

This unit is equipped with built-in cooling fans to prevent internal heat build-up. With the power on, the fans may activate even when the unit is not performing any operation. Turn the power off when the unit is not in use.

ESPAÑOL

Esta unidad está equipada con ventiladores incorporados para impedir que se acumule calor en su interior. Con la alimentación conectada, los ventiladores pueden activarse aunque la unidad no realice ninguna operación. Desconecte la unidad cuando no la utilice.

FRANÇAIS

Cet appareil est muni de ventilateurs de refroidissement intégrés pour éviter toute accumulation de chaleur à l'intérieur. Lorsque l'appareil est sous tension, ces ventilateurs peuvent être activés même quand l'appareil n'effectue aucune opération. Couper l'alimentation quand on n'utilise pas l'appareil.

WARNING

TO REDUCE THE RISK OF FIRE OR ELECTRIC SHOCK, DO NOT EXPOSE THIS APPLIANCE TO RAIN OR MOISTURE.



Explanation of Graphical Symbols:



The lightning flash with arrowhead symbol, within an equilateral triangle, is intended to alert the user to the presence of uninsulated "dangerous voltage" within the product's enclosure that may be of sufficient magnitude to constitute a risk of electric shock to persons.



The exclamation point within an equilateral triangle is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the appliance.

Owner's record

For your convenience, record the model number and serial number (you will find them on the rear of your set) in the space provided below. Please refer to them when you contact your Aiwa dealer in case of difficulty.

Model No.	Serial No. (Lot No.)
CX-NDV5U	
SX-WNA555	
SX-R275	
SX-C605	

PRECAUTIONS

Read the Operating Instructions carefully and completely before operating the unit. Be sure to keep the Operating Instructions for future reference. All warnings and cautions in the Operating Instructions and on the unit should be strictly followed, as well as the safety suggestions below.

Warning

To prevent electric shock or injury, these safety instructions should be followed in the installation, use and servicing the unit.

Installation

Attachments - Do not use attachments not recommended by the unit manufacturer as they may result in the risk of fire, electric shock or injury to persons.

Water and Moisture - Do not use this unit near water - for example, near a bathtub, washbowl, kitchen sink, or laundry tub, in a wet basement, or near a swimming pool, and the like.

Heat - Do not use this unit near sources of heat, including heating vents, stoves, or other appliances that generate heat. It also should not be placed in temperatures less than 5°C (41°F) or greater than 35°C (95°F).

Mounting surface - Place the unit on a flat, even surface.

Accessories - Do not place this unit on an unstable cart, stand, tripod, bracket, or table. The unit may fall, causing serious injury to a child or an adult, and serious damage to the appliance. Use only with a cart, stand, tripod, bracket, or table recommended by the manufacturer, or sold with the unit. Any mounting of the appliance should follow the manufacturer's instructions, and should use a mounting accessory recommended by the manufacturer.

Portable cart - An appliance and cart combination should be moved with care. Quick stops, excessive force, and uneven surfaces may cause the appliance and cart combination to overturn.

PORTABLE CART WARNING



S3125A

Ventilation - The unit should be situated with adequate space around it so that proper heat ventilation is assured. Allow 10 cm clearance from the rear and the top of the unit, and 5 cm from the each side.

Slots and openings in the cabinet and the back or bottom are provided for ventilation, and to ensure reliable operation of the unit and to protect it from overheating, these openings must not be blocked or covered. The openings should never be blocked by placing the unit on a bed, sofa, rug or other similar surface. (This unit should never be placed near or over a radiator or heat register.) This unit should not be placed in a built-in installation such as a bookcase unless proper ventilation is provided.

Object and Liquid Entry - Never push objects of any kind into this unit through the cabinet slots as they may touch dangerous voltage points or short-circuit parts that could result in a fire or electric shock. Never spill liquid of any kind on the unit.

Electric Power

Power Sources - This unit should be operated only from the type of power source indicated on the marking label. If you are not sure of the type of power supply to your home, consult your appliance dealer or local power company. To operate unit on battery power, or other sources, refer to the operating instructions.

Grounding or Polarization - This unit is provided with a polarized alternating-current line plug (a plug having one blade wider than the other). This plug will fit into the power outlet only one way. This is a safety feature. If you are unable to insert the plug fully into the outlet, try reversing the plug. If the plug should still fail to fit, contact your electrician to replace your obsolete outlet. Do not defeat the safety purpose of the polarized plug.

Power-Cord Protection - This unit is provided with an attachment plug having overload protection. This is a safety feature. See operating instructions for replacement or resetting of protective device. If replacement of the plug is required, be sure the service technician has used a replacement plug specified by the manufacturer that has the same overload protection as the original plug.

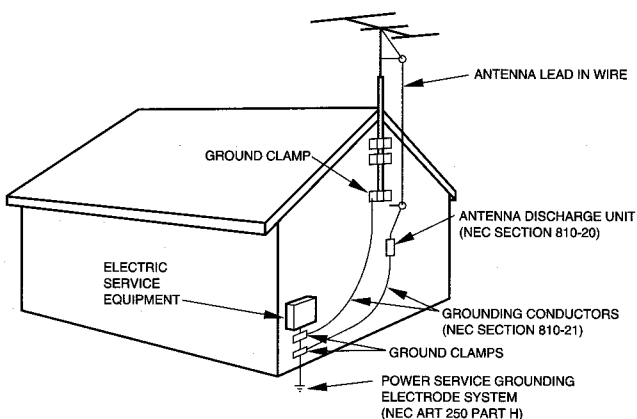
Overloading - Do not allow anything to rest on the power cord. Do not overload wall outlets and extension cords as this can result in fire or electric shock. Do not locate this unit where the cord will be abused by persons walking on it.

Outdoor Antenna

Power lines - An outside antenna system should not be located in the vicinity of overhead power lines or other electric light or power circuits, or where it can fall into such power lines or circuits. When installing an outside antenna system, extreme care should be taken to keep from touching such power lines or circuits as contact with them might be fatal.

Outdoor Antenna Grounding - If an outside antenna or cable system is connected to the unit, be sure the antenna or cable system is grounded so as to provide some protection against voltage surges and built-up static charges. Section 810 of the National Electrical Code, ANSI/NFPA No.70, provides information with regard to proper grounding of the mast and supporting structure, grounding of the lead-in wire to an antenna discharge unit, size of grounding conductors, location of antenna-discharge unit, connection to grounding electrodes, and requirements for the grounding electrode. See the figure.

Antenna Grounding According to the National Electrical Code



NEC-NATIONAL ELECTRICAL CODE

Lightning

For added protection for this unit receiver during a lightning storm, or when it is left unattended and unused for long periods of time, unplug it from the wall outlet and disconnect the antenna or cable system. This will prevent damage to the unit due to lightning and powerline surges.

Maintenance

Cleaning - Unplug this unit from the wall outlet before cleaning. Do not use liquid cleaners or aerosol cleaners. Use a damp cloth for cleaning.

Damage Requiring Service

Unplug this unit from the wall outlet and refer servicing to qualified service personnel under the following conditions:

- 1) When the power cord or plug is damaged or frayed.
- 2) If the liquid has been spilled into the unit.
- 3) If the unit has been exposed to rain or water.
- 4) If the unit does not operate normally by following the operating instructions. Adjust only those controls that are covered by the operating instructions as improper adjustment of other controls may result in damage and will often require extensive work by a qualified technician to restore the unit to normal operation.
- 5) If the unit has been dropped or the cabinet has been damaged.
- 6) When the unit exhibits a distinct change in performance - this indicates a need for service.

Do not attempt to service this unit yourself as opening or removing covers may expose you to dangerous voltage or other hazards. Refer all servicing to qualified service personnel.

Replacement Parts - When replacement parts are required, be sure the service technician has used replacement parts specified by the manufacturer or having the same characteristics as the original part. Unauthorized substitutions may result in fire, electric shock or other hazards.

Safety Check - Upon the completion of any service or repairs to this unit, ask the service technician to perform safety checks to determine that the unit is in proper operating condition.

NOTE

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation.

This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

CAUTION

Modifications or adjustments to this product, which are not expressly approved by the manufacturer, may void the user's right or authority to operate this product.

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FEATURES

Thank you for purchasing this Aiwa DVD stereo system. Your XR-DV5 is capable of playing DVDs (Digital Video Discs), VCDs (Video CDs), audio CDs, cassette tapes, as well as the radio. This unit is also capable of full DOLBY PRO LOGIC surround system playback. Its special features include the following:

DVD provides a completely new dimension in video entertainment.

- **With the multi-language function*** you can select an audio soundtrack in up to 8 languages, and subtitles in up to 32 languages.
- **With the multi-angle function*** you can select a viewing angle of scenes shot from multiple camera angles and recorded on the disc.
- **With the parental lock function*** you can prevent playback of specified discs unsuitable for certain audiences.
* All these functions are dependent on the DVD software.
- **The 96 kHz/24 bit linear PCM sound** provides quality audio superior to that of audio CDs.
- **Compatible with video CDs and audio CDs as well as DVDs**

DOLBY PRO LOGIC

Astonishingly realistic home theater sound with the center and the surround speakers when playing back video software recorded in Dolby Surround.

BEFORE USE

Please read the following before operating this unit.

SUPPORTED DISC FORMATS

This unit can play discs with the following logos.



DVDs
(8 cm disc/12 cm disc)



Video CDs (VCDs)
(8 cm disc/12 cm disc)



Audio CDs
(8 cm disc/12 cm disc)

- This unit cannot play other types of discs such as CD-I's, CD-ROMs, PHOTO CDs or Aluminum-lined discs.
- Do not use irregular shaped CDs such as heart-shaped or octagonal discs. It may damage both the unit and the disc.
- For the types of VIDEO CDs, see "Types of Video CDs", page 16.

COLOR SYSTEM FOR DVDS AND VCDS

This unit is designed for the NTSC color systems only. DVD discs and the video CDs are recorded either in the PAL or the NTSC color system.

Select only DVDs and video CDs recorded in the NTSC color system.

SOFTWARE DEPENDENT FEATURES OF DVDS AND VCDS

Some playback operations of DVDs and video CDs may be intentionally fixed by software manufacturers. As this unit plays DVDs and video CDs according to disc contents designed by the software manufacturer, some playback features of this player may not be available, while other functions may be added. Refer to the instructions supplied with the DVDs and video CDs. Some DVDs made for business purposes may not be played on this player.

REGION CODE OF THE DISC PLAYER AND DVDS

The DVD player of this unit is designed and manufactured for playback of region "1" encoded DVD software. Region code labels appear on the labels of some DVD discs to indicate which type of player can play those discs. Unless "1" or "ALL" appears on the DVD disc label, a disc cannot be played on this player. If you try to play such a disc, the message "REGIONAL CODE VIOLATION" will appear on the TV screen.

Some DVD discs may not have a region code label even though their playback is prohibited by area limits.

NOTE ON PLAYING BACK DTS-ENCODED DISCS

To enjoy DTS Digital Surround™ playback, an external 5.1 channel DTS Digital Surround™ decoder system must be connected to the digital output (S/PDIF, AES/EBU, or TosLink) of the unit.

When playing audio CDs that are DTS-encoded, excessive noise will be exhibited from the speakers connected to the unit. To avoid possible damage to the audio system, the consumer should turn down the volume before playing back such discs, adjust the volume gradually, and keep the volume level low.

COPYRIGHT PROTECTION

It is forbidden by law to copy, broadcast, show, broadcast via cable, play in public, or rent copyright material without permission.

This unit features the copy protection function developed by Macrovision. Copy protection signals are included in some DVD and VCD discs. If you record such discs on a VCR, picture noise will appear during recording and playback.

This product incorporates copyright protection technology that is protected by method claims of certain U.S. patents and other intellectual property rights owned by Macrovision Corporation and other rights owners. Use of this copyright protection technology must be authorized by Macrovision Corporation, and is intended for home and other limited viewing uses only unless otherwise authorized by Macrovision Corporation. Reverse engineering or disassembly is prohibited.

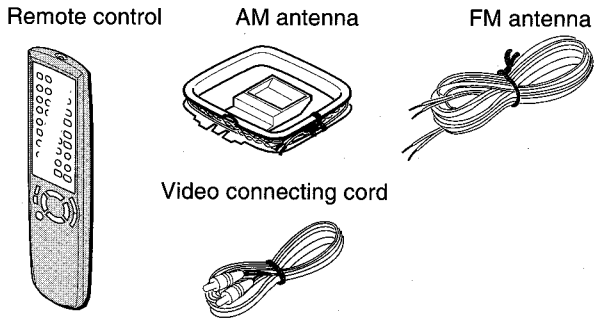
SETTING UP

Aside from the left and right front stereo speakers, this unit comes with a center speaker and two surround speakers for the DOLBY PRO LOGIC multi-channel system.

Complete setting and connection of the main unit, speakers and TV according to the following directions.

Check your system and accessories

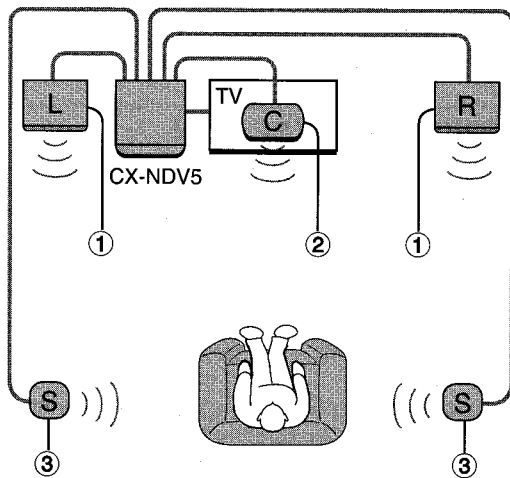
- CX-NDV5 DVD stereo cassette receiver
- SX-WNA555 Front speakers
- SX-R275 Surround speaker
- SX-C605 Center speaker



Operating Instructions, etc

POSITIONING THE SPEAKERS

To achieve the optimum effects obtainable with the DOLBY PRO LOGIC system, it is important to position the speakers properly. Refer to the following illustration to find out the best location in your room.



- ① Front speakers
- ② Center speaker

Place in the center of the two front speakers, on or below the TV set.

- ③ Surround speakers

Place the surround speakers directly to the side of or slightly behind the listening area. Align them horizontally, about 1 meter (3.2 feet) above ear height.

NOTE

- No sound is heard from the center and surround speakers when the DOLBY PRO LOGIC is set to off.
- The center speaker sounds when the DOLBY PRO LOGIC is set to on.

CONNECTIONS

Before connecting the AC cord

The rated voltage of your unit shown on the rear panel is 120 V AC. Check that the rated voltage matches your local voltage.

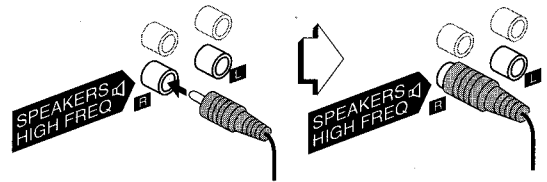
IMPORTANT

Connect the speakers, antennas, and all optional equipment first. Then connect the AC cord.

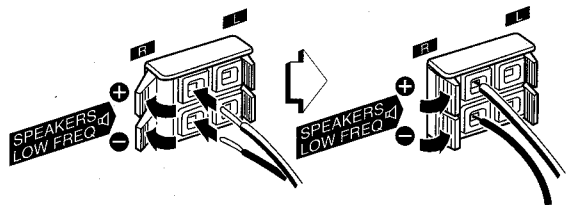
There are no differences between the front speakers. Both speakers can be connected as L (left) or R (right).

1 Connect the right speaker to the main unit.

- ① Connect the speaker cord with the plug to the **SPEAKERS HIGH FREQ R** terminal.



- ② Connect the speaker cord with the white stripe to the **SPEAKERS LOW FREQ R +** terminal and the black cord to the **-** terminal.



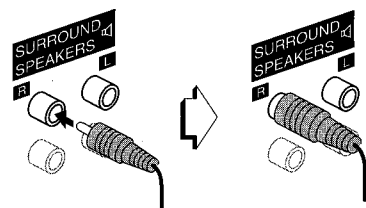
2 Connect the left speaker to the main unit.

Connect the speaker cord with plug to the **SPEAKERS HIGH FREQ L** terminal, and another speaker cord to the **SPEAKERS LOW FREQ L** terminals in the same manner as step 1.

3 Connect the surround speakers.

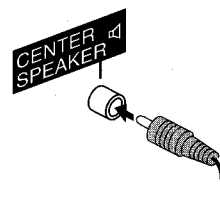
Connect the surround speaker cords to **SURROUND SPEAKERS** terminals.

There is no difference between the surround speakers. Both speakers can be connected as R (right) or L (left).



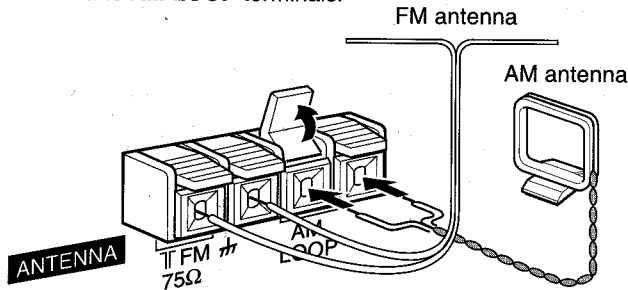
4 Connect the center speaker.

Connect the center speaker cord to **CENTER SPEAKER** terminal.



5 Connect the supplied antennas.

Connect the FM antenna to **FM 75 Ω** terminals and the AM antenna to **AM LOOP** terminals.



To position the antennas

FM feeder antenna:

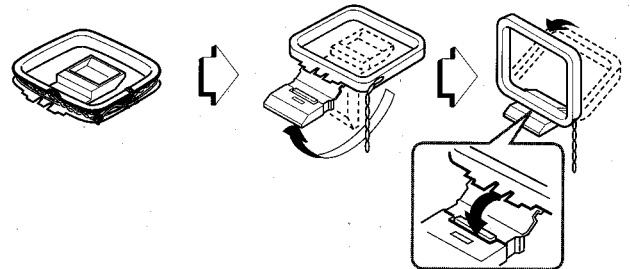
Extend this antenna horizontally in a T-shape and fix its ends to the wall.

AM antenna:

Position to find the best possible reception.

To stand the AM antenna on a surface

Fix the claw to the slot.



6 Connect the television set.

If your TV set does not have an S-video input jack:

Connect one end of the supplied video connecting cord to the **VIDEO OUT** jack of this unit, and the other end to an appropriate **VIDEO IN** jack of your television set.

If your TV set has an S-video input jack: Connect one end of an optional S-video cord to the **S-VIDEO OUT** jack of this unit, and the other end to the **S-VIDEO IN** jack of your television set. Do not connect the conventional video cord when using the S-video jack.

The illustration shows the connection to the **VIDEO OUT** jack. Refer to the Operating Instructions of your TV set for details.

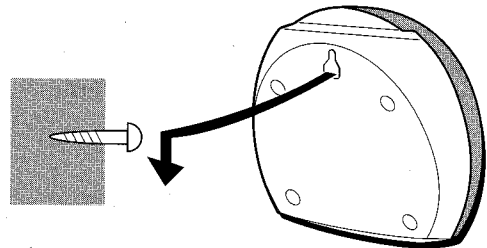
- **If your TV set is a wide-screen set:** You need to adjust the TV aspect in the DVD setup menu after all connections are complete (see "TV Aspect", page 47).

7 Connect the AC cord to an AC outlet.

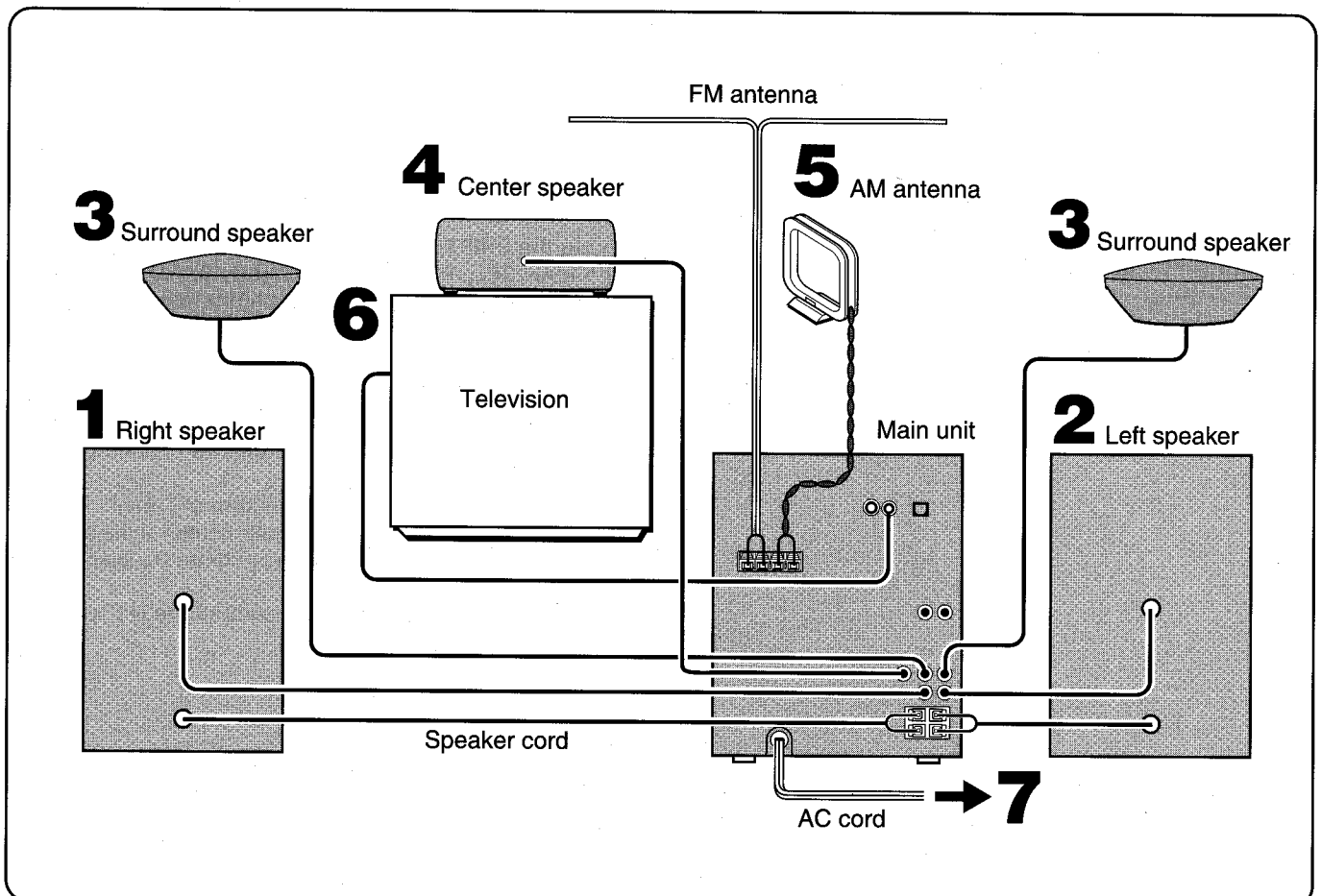
The game Demo will begin when the AC cord is plugged into an AC outlet. See page 41 "Game Demo" for details.

To mount the surround speakers on the wall

Mount each speaker on a spot that can hold its weight.

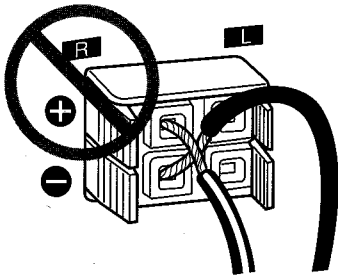


En



NOTE

- Be sure to connect the speaker cords correctly. Improper connections can cause short circuits in **SPEAKERS** terminals.

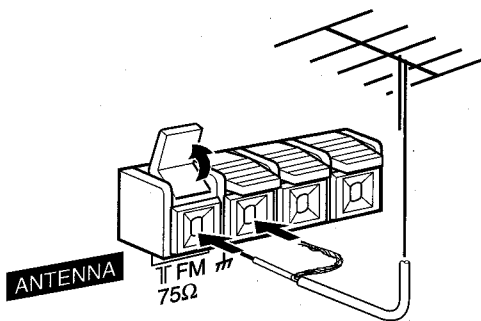


- Do not leave objects generating magnetism, such as credit cards, near the speakers, as these objects may be damaged.
- Do not bring the FM antenna near metal objects or curtain rails.
- Do not bring the AM antenna near other optional equipment, the stereo system itself, the AC cord or speaker cords, since noise will be picked up.
- Do not unwind the AM antenna wire.

CONNECTING AN OUTDOOR ANTENNA

For better FM reception, use of an outdoor antenna is recommended.

Connect the outdoor antenna to **FM 75 Ω** terminals.

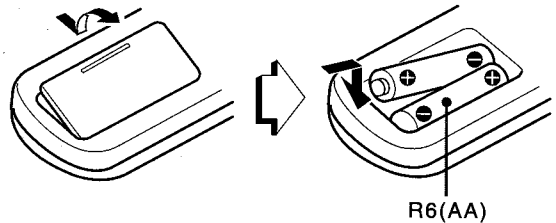


To connect other optional equipment → page 42.

REMOTE CONTROL

Inserting batteries

Detach the battery cover on the rear of the remote control and insert two R6 (size AA) batteries.



When to replace the batteries

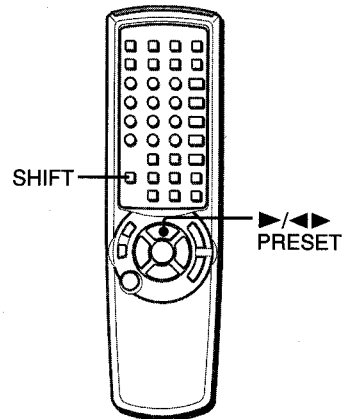
The maximum operational distance between the remote control and the sensor on the main unit should be approximately 5 meters (16 feet). When this distance decreases, replace the batteries with new ones.

Using the remote control

The instructions in this manual refer mainly to the buttons on the main unit. Buttons on the remote control with the same names as those on the main unit can be used as well.

▶/◀▶ PRESET on the remote control

The function is the same as that of ▶ on the main unit.



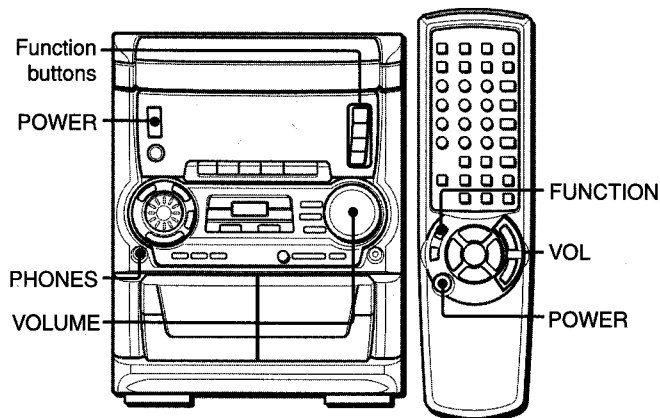
Using the SHIFT key

The **MAN/SEL**, **PBC**, **MONO TUNER**, **BAND**, **KARAOKE**, **TIMER**, **SLEEP**, and **CLOCK** buttons on the remote control need to be pressed as a combination with the **SHIFT** key.

NOTE

- If the remote control is not going to be used for an extended period of time, remove the batteries to prevent possible electrolyte leakage.
- The remote control may not operate correctly when:
 - The line of sight between the remote control and the remote sensor inside the display window is exposed to intense light, such as direct sunlight
 - Other remote controls are used nearby (those of a television, etc.)

BEFORE OPERATION



SELECTING A FUNCTION

This unit is equipped with a disc player (to play DVDs, CDs and VCDs), a tape recorder and a radio as internal sound sources. In addition, this unit can play input from external equipment via the VIDEO/AUX jack.

To play the desired sound source, you need to select it as the active function first.

To select a function

Press the appropriate function button on the main unit (**TAPE DECK 1/2**, **TUNER**, **VIDEO/AUX** or **DVD/CD/VCD**), or press **FUNCTION** repeatedly on the remote control.

The name of the source is displayed, and the unit switches to the selected sound source.

NOTE

When you switch to the TUNER function from the DVD/CD/VCD function, it may take up to 10 seconds before the sound actually switches to the tuner.

TO TURN THE POWER ON

Press one of the function buttons (**TAPE**, **TUNER**, **VIDEO/AUX**, **DVD/CD/VCD**). Playback of the inserted disc or tape begins, or the previously tuned station is received (Direct Play Function). **POWER** is also available.

When the power is turned on, the disc compartment may open and close to reset the unit.

To turn the power off

Press **POWER**.

NOTE

- If you do not have your clock set, the built-in demo game will start automatically when the power is turned off (see "Game Demo", page 41).
- For the power economy mode, see "Setting Power Economizing Mode", page 40.
- When you press **POWER** to turn off the power from the DVD/CD/VCD function, it may take up to 10 seconds before the power actually turns off.

VOLUME

Turn **VOLUME** on the main unit, or press **VOL** on the remote control.

The volume level is displayed as a number from 0 to MAX (50). The volume level is automatically set to 20 when the power is turned off with the volume level set to 21 or more.

USING THE HEADPHONES

Connect headphones to the **PHONES** jack with a standard stereo plug (ø6.3 mm, 1/4 inch).

No sound is output from the speakers while the headphones are plugged in.

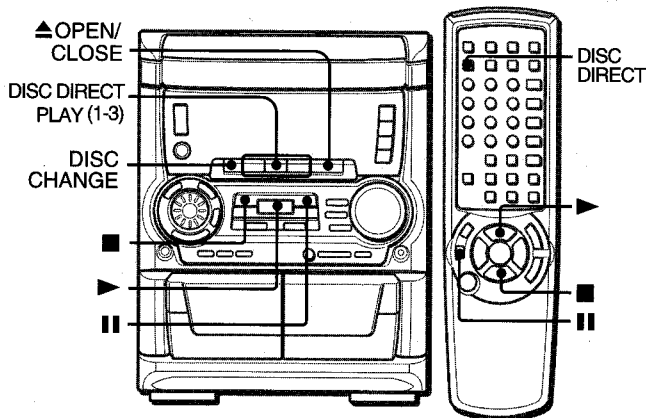
- When the headphones are plugged in, the DOLBY PRO LOGIC is canceled.

BASIC OPERATIONS

For disc formats supported on this unit, see page 5.

NOTE

Various guide displays of the current CD operation are available on the TV screen. To view them, connect and select input of the TV properly and make sure you have "Guide Message ON" in the Setup menu (see "Guide Message", page 44).



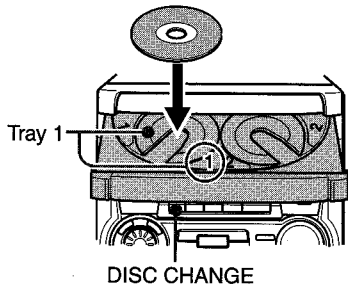
LOADING DISCS

1 Press ▲ OPEN/CLOSE to open the disc compartment.

2 Load disc(s) with the label side up.

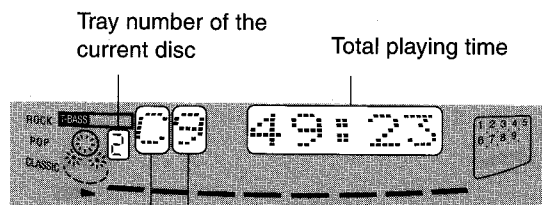
To play one or two discs, place the discs on tray 1 and/or 2.

To play three discs, press **DISC CHANGE** to rotate the tray after placing two discs. Place the third disc on tray 3.



3 Press ▲ OPEN/CLOSE to close the disc compartment.

When an audio CD is loaded, a display such as the following appears:



Type of disc: audio CD (appears only when the total number of tracks is 9 or less).

NOTE

- When loading an 8-cm (3-inch) disc, put it onto the inner circle of the tray.
- Do not place more than one compact disc on one disc tray.
- Do not tilt the unit with discs loaded. Doing so may cause malfunctions.
- Do not use irregular shaped CDs such as heart-shaped or octagonal discs. It may damage both the unit and the disc.

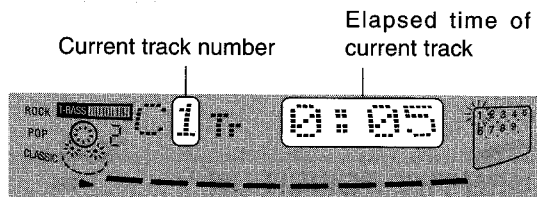
PLAYING DISCS

1 Load the disc(s).

See "Loading discs", above.

2 Press ►.

The unit plays all discs in the disc compartment. Playback begins with the disc on tray 1.



To play just one disc

Press the **DISC DIRECT PLAY** button (1 to 3) for your desired disc.

The **DISC DIRECT PLAY** buttons (1 to 3) correspond to the three discs trays (1 to 3).

The selected disc is played once.

STOPPING AND PAUSING

To stop playback

Press ■.

Playback stops. The unit remembers the point at which playback stopped.

To resume playback from the point where it stopped

Press ►.

"RESUME" appears in the TV display and playback starts where it last stopped (Resume function).

To clear the point to be resumed

Press ■ again during stop.

"RESUME OFF" appears in the TV display. The resume memory is cleared, and playback starts at the beginning of the disc when ► is pressed.

NOTE

- Under the default setting, the point to be resumed is also cleared when the disc tray is opened, the current disc is switched, the power is turned off, or the function is switched.
- Set up can be changed so that the resume memory is retained even after the conditions described above. (See "Disc Resume", page 50).

To pause playback

Press ||.

To resume playback, press ►.

SWITCHING THE CURRENT DISC

On the main unit:

Press the **DISC DIRECT PLAY** button (1 to 3) for your desired disc.

On the remote control:

Press **DISC DIRECT**, then press a numbered button (1 to 3) to select a disc.

Press the disc number within 3 seconds after pressing **DISC DIRECT**.

Playback switches to the selected disc.

REMOVING DISCS

Press **▲ OPEN/CLOSE**.

The disc tray slides out. The power turns on if pressed when power is off.

To rotate the tray

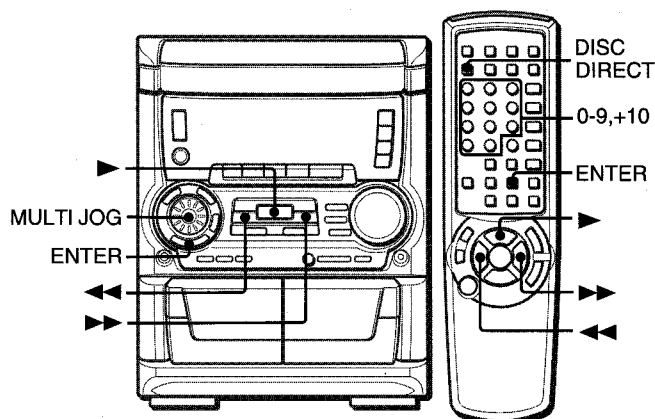
Press **DISC CHANGE**.

To replace discs during play

While a disc is playing, other discs can be replaced without interrupting current playback.

- 1 Press **DISC CHANGE**.
- 2 Replace the disc(s).
- 3 Press **▲ OPEN/CLOSE** to close the disc compartment.

SELECTING A TRACK



DIRECTLY SELECTING A TRACK WITH THE REMOTE CONTROL

A track can be selected directly by entering the track number on the remote control, either during playback or stop.

- 1 Press **DISC DIRECT**, then press a numbered button (1-3) to select a disc.

Press the disc number within 3 seconds after pressing **DISC DIRECT**.

- 2 Press the numbered buttons for the desired track.

Example:

To play track 12, press **+10, 2** (or **1, 2**).

To play track 20, press **+10, +10** (or **2, 0**).

Playback begins at the beginning of the selected track and continues to the end of the disc.

FAST FORWARD/REVERSE PLAYBACK

Hold down **◀◀** or **▶▶** during playback.

"◀◀x 5" or "▶▶x 5" is displayed on the TV screen.

The disc is played back forward (when holding down **▶▶**) or in reverse (when holding down **◀◀**) at high speed.

To change playback speed

Hold down **◀◀** or **▶▶** repeatedly.

The playback speed alternates between 5 times and 16 times.

To return to normal playback

Press **▶**.

NOTE

The fast playback speed is the value for a disc with an average bit rate. The actual speed may be different for some discs.

SKIPPING

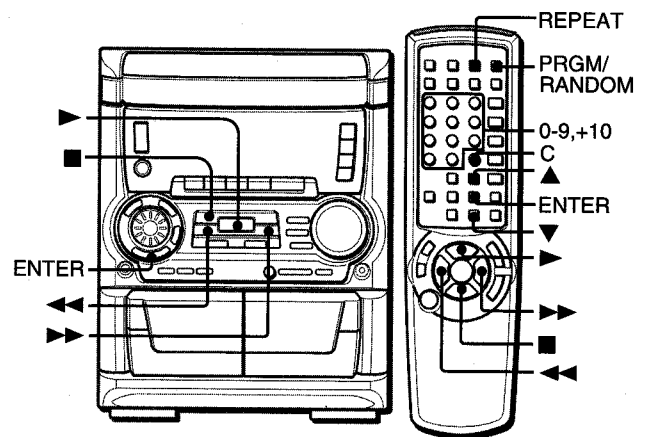
Press ◀◀ or ▶▶, or turn MULTI JOG during playback.

With each press of ▶▶, the disc position skips to the succeeding track.

When ◀◀ is pressed once, the disc position skips back to the beginning of the current track.

When ◀◀ is pressed twice or more, the disc position skips back to the previous track(s).

REPEAT, PROGRAMMED AND RANDOM PLAYBACK



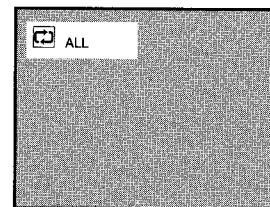
REPEAT PLAYBACK

1 Press REPEAT to display "ALL".

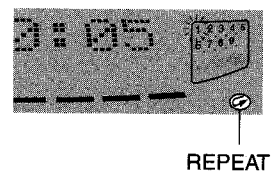
With each press, the repeat playback mode alternates between ALL and OFF, and the repeat playback indication turns on and off on the unit's display.

ALL: Repeats all tracks on the current disc.

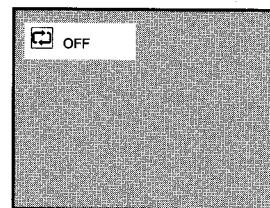
TV screen:



Unit's display:



OFF: Cancel repeat mode. (Normal playback)



2 Press ▶ to start play.

Tracks on the current disc are played back repeatedly.

To cancel repeat playback

Press **REPEAT** on the remote control again until the repeat indication disappears in the unit's display.

The unit goes back to normal playback.

To repeat playback of selected track(s) in a disc

Program the track(s) with the programmed playback function, and then press **REPEAT** to repeat playback of the programmed tracks (see "Programmed Playback", page 13).

PROGRAMMED PLAYBACK

You can program up to 32 selected tracks from a single disc to be played back in your desired order, for a total of up to 99:59 of playback time.

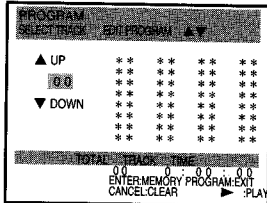
1 Press PRGM/RANDOM once on the remote control in stop mode.

"PROGRAM" appears on the TV screen and "0P 0:00" appears in the unit's display.

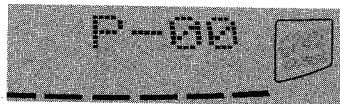
2 Within 3 seconds, press ENTER.

The playback program screen is displayed on the TV screen and on the unit's display.

TV screen:



Unit's display:



3 Press the numbered button(s) or ▲ / ▼ on the remote control to select the track to be played first.

Using the numbered buttons:

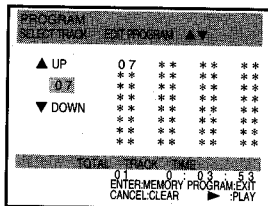
To select track 12, press +10, 2.

To select track 20, press +10, +10.

Using the ▲ / ▼ buttons:

Press ▲ for a larger track number and ▼ for a smaller track number.

TV screen:

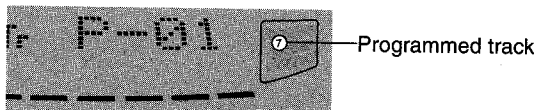


4 Press ENTER.

The selected track number is listed on order in the TV screen, and lights up on the unit's display.

The number of programmed tracks and the total playback time is also indicated at the bottom of the TV screen.

Unit's display:



If you entered the wrong number

Press C (CLEAR).

The last programmed number is canceled. Then enter the correct number

5 Repeat steps 3 and 4 to program other tracks.

6 Press ► to start playback.

The programmed tracks are played back in the order of entry. The currently playing track number flashes and all the remaining track numbers are lit in the unit's display.

To cancel programmed playback

Press PRGM/RANDOM twice.

"OFF" is displayed on the TV screen. Programmed playback is canceled, and the unit continues to play back the current and all succeeding tracks in the disc.

To stop programmed playback

Press ■.

The unit remembers the point at which playback stopped, and resumes programmed playback from this point when ► is pressed.

To clear the point to be resumed

Press ■ once more after stopping programmed playback.

The resume memory is cleared, and plays back from the first programmed track when ► is pressed.

To clear the program

Press ■ twice after stopping programmed playback.

All the programmed contents are cleared.

To continue programming a new set of tracks, press ENTER and repeat from step 3 of "Programmed Playback", above.

NOTE

The program is also cleared when the disc tray is opened, the function is switched or the power is turned off.

To check the program

Press ►► during stop.

With each press, the program number and the track number are shown progressively on the unit's display.

To add a track to the program

1 Press PRGM/RANDOM repeatedly so that "PROGRAM" appears on the TV screen. Then press ENTER within 3 seconds.

2 Press the numbered button(s) or ▲ / ▼ on the remote control to select a track. Then press ENTER.

The selected track is added to the end of the program.

To delete a track from the program

1 Press PRGM/RANDOM repeatedly so that "PROGRAM" appears on the TV screen. Then press ENTER within 3 seconds.

2 Press C.

The last track in the program is canceled.

To play the programmed tracks repeatedly

1 Follow all the steps of "Programmed Playback" above to program tracks.

2 Press REPEAT.

The programmed tracks are played repeatedly.

To skip tracks

Press ◀◀ or ▶▶ repeatedly.

Playback skips to the previous or the succeeding track(s) within the program.

NOTE

• If you use the DISC DIRECT button and the numbered buttons on the remote control to select a disc or a track, programmed playback will be canceled.

• You cannot program more than 32 tracks, or for a total playback time of more than 99:59.

RANDOM PLAYBACK

Random playback plays back tracks from a single disc in random order.

1 Press PRGM/RANDOM repeatedly on the remote control to show the random playback indication on the unit's display.

Press once if during playback, twice if during stop. "RANDOM" appears on the TV screen and the random playback indication appears in the unit's display.

2 Press ► to start play.

Tracks on the current disc are played back in random order.

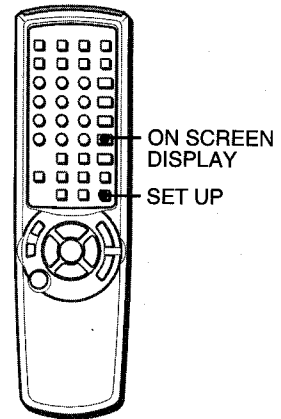
To cancel random playback

Press **PRGM/RANDOM** once on the remote control. "OFF" appears on the TV screen and the random playback indication disappears in the unit's display. The unit goes back to normal playback.

NOTE

During random playback you cannot skip back to the previously played track with ◀◀.

CHANGING THE DISPLAY INFORMATION

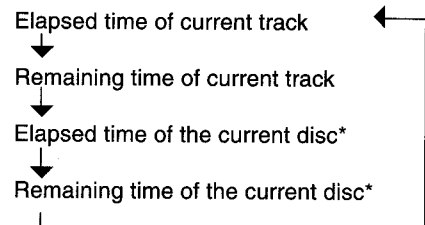


CHANGING THE PLAYBACK TIME INFORMATION ON THE UNIT'S DISPLAY

Playback time information on the unit's display can be changed.

Press SET UP repeatedly on the remote control during playback.

With each press, the display changes as follows:



*The elapsed time or remaining time of the program during programmed playback.

NOTE

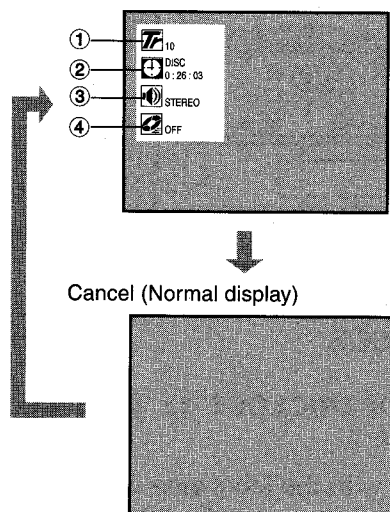
During random playback you cannot change the playback time information on the unit's display.





DISPLAYING PLAYBACK STATUS ON THE TV SCREEN

General playback status can be displayed on the TV screen.

Press ON SCREEN DISPLAY repeatedly.

With each press, the display on the TV screen alternates between on and off:



- ①  shows the track number.
- ②  shows the elapsed playing time during playback and the playback resume point during stop.
- ③  shows the audio information (STEREO).
- ④  shows the playback mode (PROGRAM, RANDOM or OFF).

The descriptions in this section apply to both DVDs and video CDs unless otherwise noted. Make sure the TV set is connected properly and its input source is selected properly (see "Connections", page 6).

DISC-RELATED TERMS

Title (DVD only)

A title is the longest section of a picture or a musical piece on a DVD; a movie for a picture piece on video software, or an album for a musical piece on audio software.

Each title is assigned a title number enabling you to locate the title you want.

Chapter (DVD only)

Chapters are sections of a picture or a musical piece that are smaller than titles.

A title is composed of several chapters. Each chapter is assigned a chapter number, enabling you to locate the chapter you want. Depending on the disc, there may be no chapters recorded.

Track (audio CD and VCD only)

Tracks are sections of a picture or a musical piece on a video CD or an audio CD.

Each track is assigned a track number, enabling you to locate the track you want.

Scene

On a video CD with PBC (PlayBack Control) functions, moving pictures and still pictures are divided into sections called "Scenes". Each scene is displayed in the menu screen and assigned a scene number, enabling you to locate the scene you want.

A scene is composed of one or several tracks.

TYPES OF VIDEO CDS

There are two types of video CDs.

Video CDs equipped with PBC (Version 2.0)

PBC (PlayBack Control) allows you to interact with the system via menus, search functions or other typical computer-like operations. Still pictures of high resolution can also be played back, if they are included in the disc.

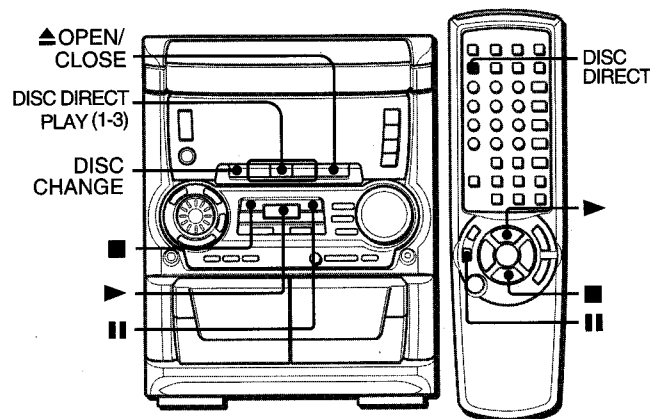
Video CDs not equipped with PBC (Version 1.1)

Operated in the same way as audio CDs, these discs allow playback of video pictures as well as sound, but they are not equipped with PBC.

In some cases, you may want to play back VCDs equipped with PCB with the PCB feature off. This is because some disc playback features can only be used for VCDs without PBC. See "Playing a VCD without Using PlayBack Control", page 18.

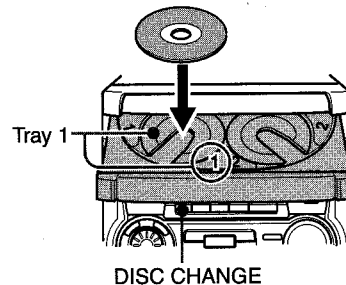
BASIC OPERATIONS

For disc formats supported on this unit, see page 5.



LOADING DISCS

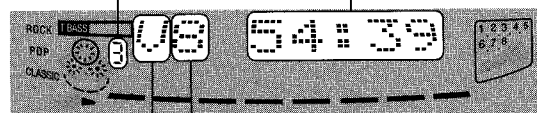
- 1 Press **▲ OPEN/CLOSE** to open the disc compartment.
- 2 Load disc(s) with the label side up.
 - To play one or two discs, place the discs on tray 1 and/or 2.
 - To play three discs, press **DISC CHANGE** to rotate the tray after placing two discs. Place the third disc on tray 3.



- 3 Press **▲ OPEN/CLOSE** to close the disc compartment.

When a VCD without the PBC function is loaded, a display such as the following appears.

Tray number of the current disc Total playing time



Total number of tracks

Type of disc: VCD
(appears only when the total number of tracks is 9 or less).

When a DVD or a VCD with the PBC function is loaded, playback starts automatically.

NOTE

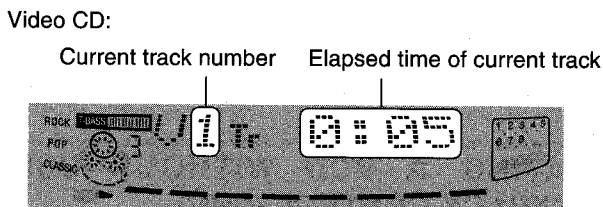
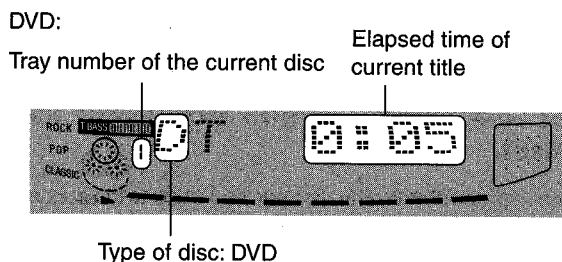
- When loading an 8-cm (3-inch) disc, put it onto the inner circle of the tray.
- Do not place more than one compact disc on one disc tray.
- Do not tilt the unit with discs loaded. Doing so may cause malfunctions.
- Do not use irregular shaped CDs such as heart-shaped or octagonal discs. It may damage both the unit and the disc.

PLAYING DISCS

1 Turn on the television and select its input source appropriately (Video 1, Video 2, etc.).

2 Load the disc(s).
See "Loading discs", page 16.

3 Press ►.
Playback begins with the disc on tray 1.
For a DVD or a VCD with the PBC function, you do not need to press ►. Playback starts automatically when the disc is loaded.



To play just one disc
Press the **DISC DIRECT PLAY** button (1 to 3) for your desired disc.
The **DISC DIRECT PLAY** buttons (1 to 3) correspond to the three disc trays (1 to 3).
The selected disc is played once.

NOTE

- Some DVDs or VCDs may automatically display the menu screen after first loading the disc. See "Using the Software Specific Menu", page 18.
- For DVDs, the **DISC DIRECT PLAY** button may not operate if the Disc Resume setting is set to "ON". In this case, set it to "OFF" (see "Disc Resume", page 50).

STOPPING AND PAUSING

To stop playback

Press ■.
Playback stops. The unit remembers the point at which playback stopped.

To resume playback from the point where it stopped

Press ►.
"RESUME" appears in the TV display and playback starts where it last stopped (Resume function).

To clear the point to be resumed

Press ■ again during stop.
"RESUME OFF" appears in the TV display. The resume memory is cleared, and playback starts at the beginning of the disc when ► is pressed.

NOTE

- Under the default setting, the point to be resumed is also cleared when the disc tray is opened, the current disc is switched, the power is turned off, or the function is switched.
- Set up can be changed so that the resume memory is retained even after the conditions described above. (See "Disc Resume", page 50).
- The resume function is not available for VCD playback with the PBC function turned on. To turn off PBC, see "Playing a VCD without Using PlayBack Control", page 18 and "PBC", page 49.

To pause playback

Press ■■.
To resume playback, press ►.

En

SWITCHING THE CURRENT DISC

On the main unit:

Press the **DISC DIRECT PLAY** button (1 to 3) for your desired disc.

On the remote control:

Press **DISC DIRECT**, then press a numbered button (1 to 3) to select a disc.
Press the disc number within 3 seconds after pressing **DISC DIRECT**.

Playback switches to the selected disc.

REMOVING DISCS

Press ▲ **OPEN/CLOSE**.

The disc tray slides out. The power turns on if pressed when power is off.

To rotate the tray

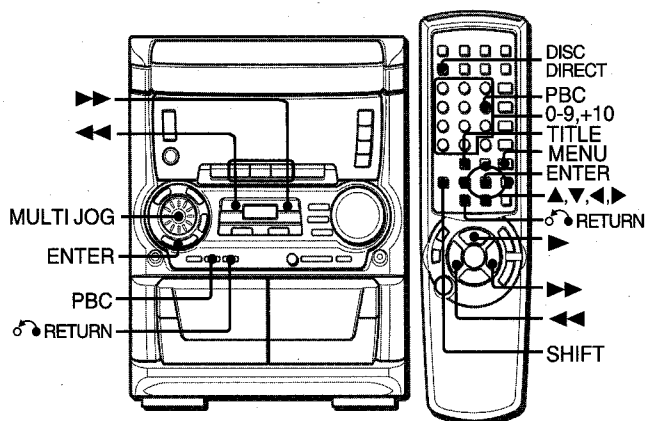
Press **DISC CHANGE**.

To replace discs during play

While a disc is playing, other discs can be replaced without interrupting current playback.

- 1 Press **DISC CHANGE**.
- 2 Replace the disc(s).
- 3 Press ▲ **OPEN/CLOSE** to close the disc compartment.

SELECTING A TRACK



USING THE SOFTWARE SPECIFIC MENU

This unit supports menu interfaces that are contained in some DVD or VCD software. For DVDs or VCDs with such menus, the menu screen may automatically be displayed on the TV screen after first loading the disc.

DVDs

- 1 Press **▲▼◀▶** to select your desired program.
- 2 Press **ENTER** to begin playback.

To display the menu

Press **TITLE** or **MENU** during stop.

VCDs with the PBC function

- 1 Press the number buttons to select your desired program.
- 2 Press **ENTER** to begin playback.

To display the menu

Press **◀▶RETURN**.

NOTE

The contents and operation of the software specific menu vary with the disc. Follow the instructions on the disc and on the menu screen.

FAST FORWARD/REVERSE PLAYBACK

Hold down **◀◀** or **▶▶** during playback.

"◀◀x 2" or "▶▶x 2" is displayed on the TV screen for DVDs, and "◀◀x 5" or "▶▶x 5" for VCDs.

The disc is played back forward (when holding down **▶▶**) or in reverse (when holding down **◀◀**) at high speed.

To change playback speed

Hold down **◀◀** or **▶▶** repeatedly.

For DVDs, the playback speed changes among twice, 8 times and 32 times. For VCDs, the playback speed alternates between 5 times and 16 times.

To return to normal playback

Press **▶**.

NOTE

- There is no audio during fast DVD or Video CD playback.
- The fast playback speed is the value for a disc with an average bit rate. The actual speed may be different for some discs.

SKIPPING

Press **◀◀** or **▶▶**, or turn **MULTI JOG** during playback.

With each press of **▶▶**, the disc position skips to the succeeding track.

When **◀◀** is pressed once, the disc position skips back to the beginning of the current track.

When **◀◀** is pressed twice or more, the disc position skips back to the previous track(s).

PLAYING A VCD WITHOUT USING PLAYBACK CONTROL (PBC)

With PBC (PlayBack Control), playback of VCDs is controlled from the menu display on the TV screen, and the menu display appears automatically after playback of each selection.

You can, however, choose to set PBC off, and play the entire VCD without returning to the menu display, just like audio CDs. This, for example, allows you to use Repeat and Programmed Playback for VCDs with PBC.

For more on PBC, see "Types of Video CDs", page 16.

1 Load the VCD.

2 Press PBC (during playback or stop).

When using the remote control, press **PBC** while pressing **SHIFT**.

"PBC" disappears from the display panel, and the menu playback feature is disabled.

NOTE

- If **PBC** is pressed during playback, playback stops before the PBC mode changes.
- You can set the unit's preference whether to play VCDs with PBC or not. See "PBC", page 49.

DIRECTLY SELECTING A TRACK WITH THE REMOTE CONTROL (VCD ONLY)

A track can be selected directly by entering the track number on the remote control, either during playback or stop.
To use this feature with VCDs that support PBC, turn off PBC first (see "Playing a VCD without Using PlayBack Control", page 18).

1 Press DISC DIRECT, then press a numbered button (1-3) to select a disc.

Press the disc number within 3 seconds after pressing DISC DIRECT.

2 Press the numbered buttons for the desired track.

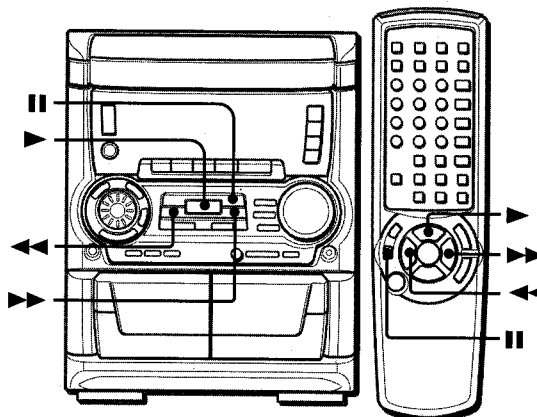
Example:

To play track 12, press **+10, 2**.

To play track 20, press **+10, +10**.

Playback begins at the beginning of the selected track and continues to the end of the disc.

FRAME ADVANCE AND SLOW PLAYBACK



FRAME ADVANCE

1 Press **||** to pause the disc.

2 Press **||** repeatedly to advance frames.

Each time you press the button, playback advances one frame.

To return to normal playback

Press **▶**.

NOTE

There is no audio during Frame Advance.

SLOW PLAYBACK

1 Press **||** to pause the disc.

2 Hold down **◀◀** or **▶▶**.

The track is played back slowly.

To change the slow forward playback speed

Each time **▶▶** is held down, the playback speed changes as follows:



To change the slow reverse playback speed

For DVDs, the playback speed alternates between 1/15 and 1/2 speed each time **◀◀** is held down. Only 1/15 speed is available for VCDs.

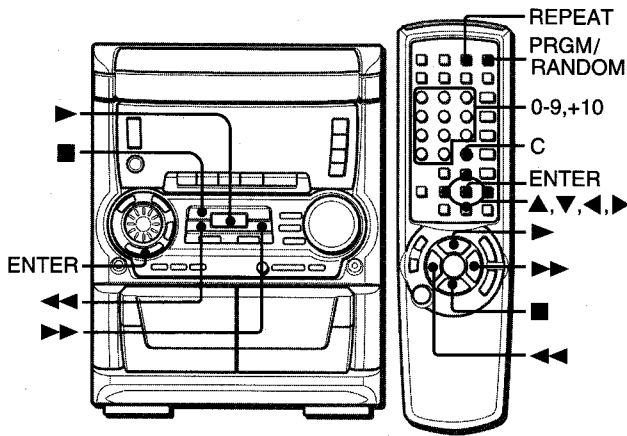
To return to normal playback

Press **▶**.

NOTE

There is no audio during slow playback.

REPEAT, PROGRAMMED AND RANDOM PLAYBACK



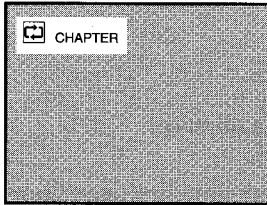
REPEAT PLAYBACK (DVD)

Press **REPEAT** repeatedly on the remote control during playback.

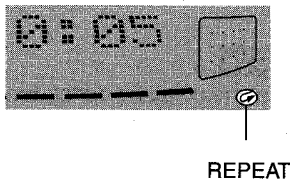
With each press, the Repeat playback mode changes:

CHAPTER: Repeats the current chapter.

TV screen:

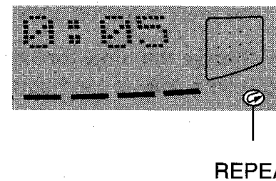
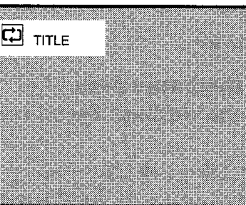


Unit's display:



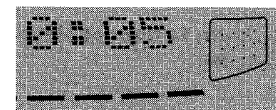
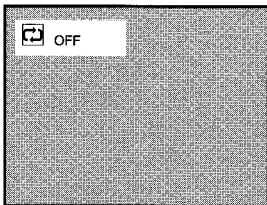
REPEAT

TITLE: Repeats the current title.



REPEAT

OFF: Cancel repeat mode. (Normal playback)



To cancel repeat playback

Press **REPEAT** on the remote control again until the repeat indication disappears in the unit's display. The unit goes back to normal playback.

REPEAT PLAYBACK (VCD)

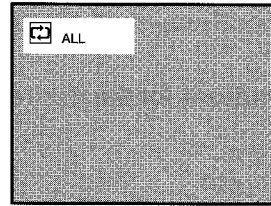
To use this feature with VCDs that support PBC, turn off PBC first (see "Playing a VCD without Using PlayBack Control", page 18).

1 Press **REPEAT** repeatedly on the remote control.

With each press, the Repeat playback mode changes:

ALL: Repeats all tracks on the current disc.

TV screen:

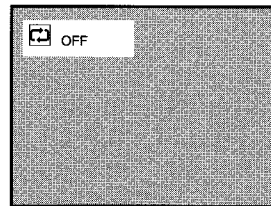


Unit's display:



REPEAT

OFF: Cancel repeat mode. (Normal playback)



2 Press **▶** to start play.

Tracks on the current disc are played back repeatedly.

To cancel repeat playback

Press **REPEAT** on the remote control again until the repeat indication disappears in the unit's display. The unit goes back to normal playback.

PROGRAMMED PLAYBACK (VCD ONLY)

You can program up to 32 selected tracks from a single disc to be played back in your desired order, for a total of up to 99:59 of playback time.

To use this feature with VCDs that support PBC, turn off PBC first (see "Playing a VCD without Using PlayBack Control", page 18).

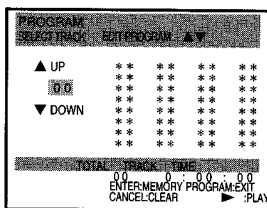
1 Press PRGM/RANDOM once on the remote control in stop mode.

"PROGRAM" appears on the TV screen and "0P 0:00" appears in the unit's display.

2 Within 3 seconds, press ENTER.

The playback program screen is displayed on the TV screen and on the unit's display.

TV screen:



Unit's display:



3 Press the numbered button(s) or ▲ / ▼ on the remote control to select the track to be played first.

Using the numbered buttons:

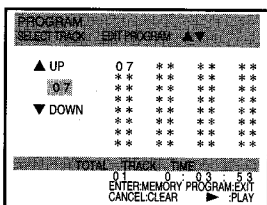
To select track 12, press +10, 2.

To select track 20, press +10, +10.

Using the ▲ / ▼ buttons:

Press ▲ for a larger track number and ▼ for a smaller track number.

TV screen:

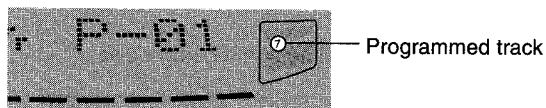


4 Press ENTER.

The selected track number is listed on order in the TV screen, and lights up on the unit's display.

The number of programmed tracks and the total playback time are also indicated at the bottom of the TV screen.

Unit's display:



If you entered the wrong number

Press C (CLEAR).

The last programmed number is canceled. Then enter the correct number

5 Repeat steps 3 and 4 to program other tracks.

6 Press ► to start playback.

The programmed tracks are played back in the order of entry. The currently playing track number flashes and all the remaining track numbers are lit in the unit's display.

When programmed playback is complete or when ■ is pressed to stop playback, the playback program reappears.

To cancel programmed playback

Press PRGM/RANDOM twice.

"OFF" is displayed on the TV screen. Programmed playback is canceled, and the unit continues to play back the current and all succeeding tracks in the disc.

To stop programmed playback

Press ■.

The unit remembers the point at which playback stopped, and resumes programmed playback from this point when ► is pressed.

To clear the point to be resumed

Press ■ once more after stopping programmed playback.

The resume memory is cleared, and plays back from the first programmed track when ► is pressed.

To clear the program

Press ■ twice after stopping programmed playback.

All the programmed contents are cleared.

To continue programming a new set of tracks, press ENTER and repeat from step 3 of "Programmed Playback", above.

NOTE

The program is also cleared when the disc tray is opened, the function is switched or the power is turned off.

To check the program

Press ►► during stop.

With each press, the program number and the track number are shown progressively on the unit's display.

To add a track to the program

1 Press PRGM/RANDOM repeatedly so that "PROGRAM" appears on the TV screen. Then press ENTER within 3 seconds.

2 Press the numbered button(s) or ▲ / ▼ on the remote control to select a track. Then press ENTER.

The selected track is added to the end of the program.

To delete a track from the program

1 Press PRGM/RANDOM repeatedly so that "PROGRAM" appears on the TV screen. Then press ENTER within 3 seconds.

2 Press C.

The last track in the program is canceled.

To play the programmed tracks repeatedly

1 Follow all the steps of "Programmed Playback" above to program tracks.

2 Press REPEAT .

The programmed tracks are played repeatedly.

To skip tracks

Press ◀◀ or ▶▶ repeatedly.

Playback skips to the previous or the succeeding track(s) within the program.

NOTE

• If you use the DISC DIRECT button and the numbered buttons on the remote control to select a disc or a track, programmed playback will be canceled.

• You cannot program more than 32 tracks, or for a total playback time of more than 99:59.

RANDOM PLAYBACK (VCD ONLY)

Random playback plays back tracks from a single disc in random order.

To use this feature with VCDs that support PBC, turn off PBC first (see "Playing a VCD without Using PlayBack Control", page 18).

1 Press PRGM/RANDOM repeatedly on the remote control to show the random playback indication on the unit's display.

Press twice if during playback, once if during stop.

"RANDOM" appears on the TV screen and the random playback indication appears in the unit's display.

NOTE

Pressing PRGM/RANDOM once during stop will bring up the programmed playback setting.

2 Press ► to start play.

Tracks on the current disc are played back in random order.

To cancel random playback

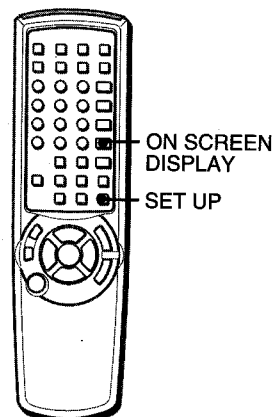
Press PRGM/RANDOM once on the remote control.

"OFF" appears on the TV screen and the random playback indication disappears in the unit's display. The unit goes back to normal playback.

NOTE

During random playback you cannot skip back to the previously played track with ◀◀.

CHANGING THE DISPLAY INFORMATION



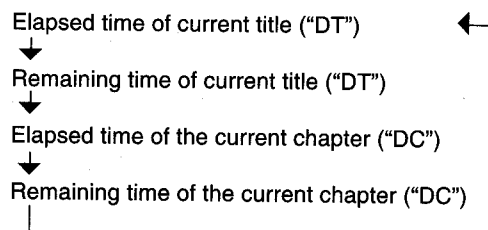
CHANGING THE PLAYBACK TIME INFORMATION ON THE UNIT'S DISPLAY

Playback time information on the unit's display can be changed.

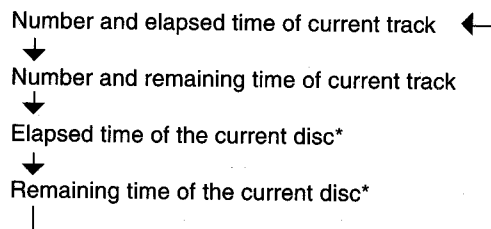
Press SET UP repeatedly on the remote control during playback.

With each press, the display on changes as follows:

DVDs



VCDs



*The elapsed time or remaining time of the program during programmed playback.

NOTE

When PBC is on, the playback time information for VCDs does not change as described above.

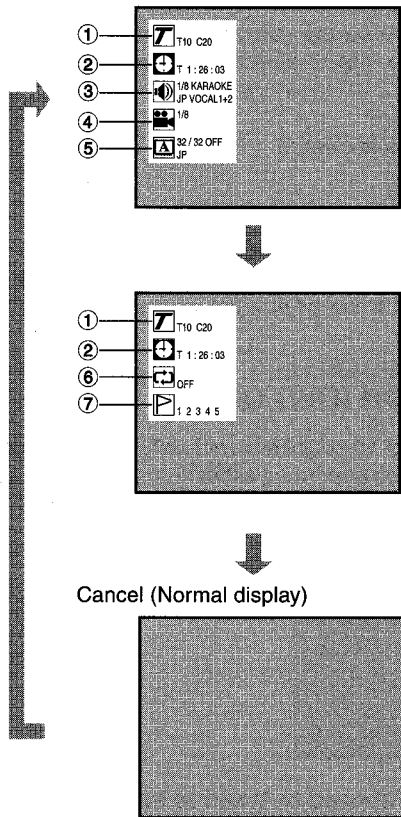
DISPLAYING PLAYBACK STATUS ON THE TV SCREEN

General playback status can be displayed on the TV screen during playback.

Press **ON SCREEN DISPLAY** repeatedly during playback.

When playing back a DVD

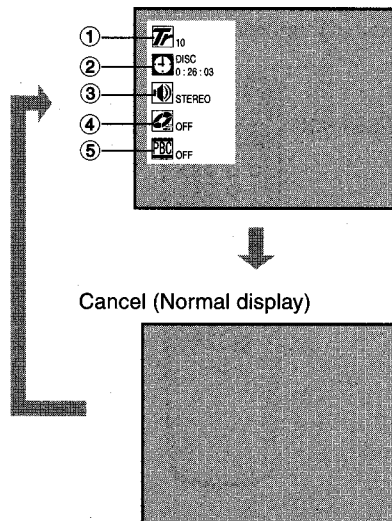
With each press, the display on the TV screen changes as follows:



- ① shows the title number and the chapter number, or "MENU" during menu display.
- ② shows the elapsed playing time or remaining time during playback, or the time of the resume point when stopped.
- ③ shows the audio information (STEREO or MONO).
- ④ shows the angle information.
- ⑤ shows the subtitle information.
- ⑥ shows the repeat mode.
- ⑦ shows the memorized mark points information.

When playing back a VCD

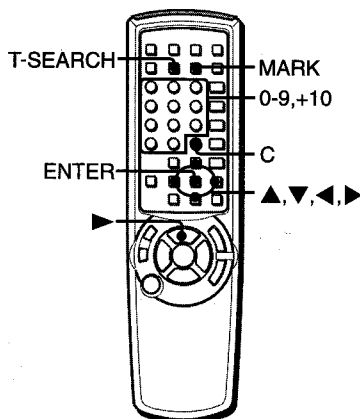
With each press, the display on the TV screen changes as follows:



- ① shows the track number.
- ② shows the elapsed playing time during playback and the playback resume point during stop.
- ③ shows the audio information (STEREO).
- ④ shows the playback mode (PROGRAM, RANDOM or OFF).
- ⑤ shows if PBC is on or off.

MARKING AND SEARCHING

Marking and searching functions are available only for DVDs.



MARKING (DVD ONLY)

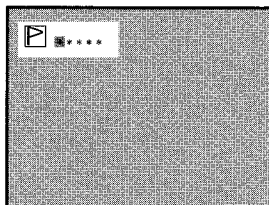
You can mark any point in a DVD and start playback from there. You can mark up to 5 discs, each with up to 5 points.

1 Play back the disc and locate the desired point to mark.

You can use functions such as "FAST FORWARD/REWIND", "SKIPPING" or "SEARCH" to locate your desired point.

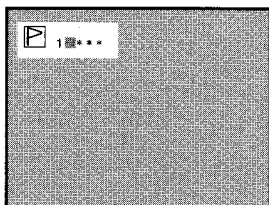
2 Press MARK.

"P" appears on the TV screen and the unit enters the Mark mode. The current Mark memory number is highlighted by the cursor.



3 Press ENTER.

The current location is marked in the Mark memory.



4 Press MARK again to exit the Mark mode.

NOTE

The Mark mode display is available only by the TV display.

To mark other points

- 1 Follow steps 1 and 2 of "Marking", above.
- 2 Press ◀, ▶ to move the cursor to the desired Mark memory number.
- 3 Follow steps 3 and 4 of "Marking", above.

To play back from a marked point

- 1 Press **MARK** during playback.
"P" appears on the TV screen and the unit enters the Mark mode.
- 2 Press ◀, ▶ to move the cursor, or press a corresponding number button (1 - 5), to select the desired Mark memory number.
- 3 Press **ENTER** or ▶.
Playback starts from the marked point.

To clear a marked point

- 1 Press **MARK** during playback.
"P" appears on the TV screen and the unit enters the Mark mode.
- 2 Press ◀, ▶ to move the cursor or press a corresponding number button (1 - 5) to select the desired Mark memory number.
- 3 Press **C**.
The Mark memory is cleared.

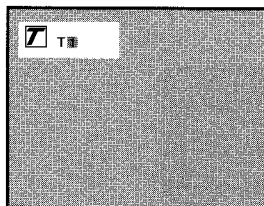
NOTE

When the 6th DVD disc is inserted, the mark data for the oldest disc is overwritten by the disc information of the new disc and deleted, even when a new point is not memorized.

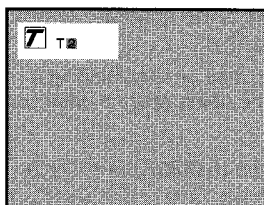
TITLE SEARCH (DVD ONLY)

You can specify the playback location of a DVD by the title number. This operation can be performed either during playback or stop.

1 Press T-SEARCH.



2 Press the numbered buttons to enter the desired title number.



Example:

To play title number 2, press 2.

To play title number 10, press 1, 0 (or +10).

You can also use ▲ and ▼ to change the selected track number in the TV display.

If you entered a wrong number

Press **C** to remove the number you entered. Then enter the correct number.

3 Press ENTER or ▶.

Playback begins at the specified title.

NOTE

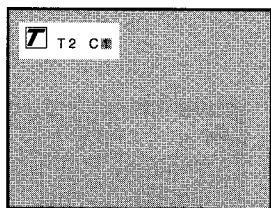
If you specify a title number which does not exist on the disc, the ⊘ symbol is displayed. In this case, repeat from step 1 with a valid title number.

CHAPTER SEARCH (DVD ONLY)

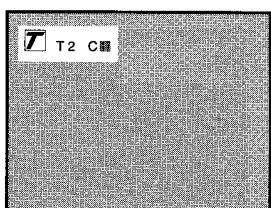
You can specify the playback location of a DVD by the chapter number.

This operation can be performed either during playback or stop.

1 Press T-SEARCH twice.



2 Press the numbered buttons to enter the desired chapter number.



Example:

To play chapter number 17, press **1, 7** (or **+10, 7**).

You can also use **▲** and **▼** to change the selected track number in the TV display.

If you entered a wrong number

Press **C** to remove the number you entered. Then enter the correct number.

3 Press ENTER or ►.

Playback begins at the specified chapter.

NOTE

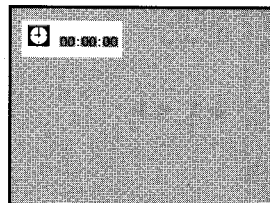
If you specify a chapter number which does not exist on the disc, the **⊗** symbol is displayed. In this case, repeat from step 1 with a valid chapter number.

TIME SEARCH (DVD ONLY)

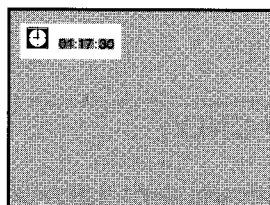
With DVDs that support display of elapsed time, you can locate a point in the disc by specifying the time from the beginning of this disc.

This operation can be performed either during playback or stop.

1 Press T-SEARCH 3 times.



2 Press the numbered buttons to enter the time of the desired location.



Example:

To specify 1:17:30 (1 hour 17 minutes 30 seconds), press **1, 1, 7, 3** and **0**.

To specify 0:08:07 (8 minutes 7 seconds), press **8, 0** and **7**.

If you entered the wrong numbers

Press **C** repeatedly to remove the numbers you entered. Then enter the correct numbers.

3 Press ENTER or ►.

Playback begins at the specified location.

NOTE

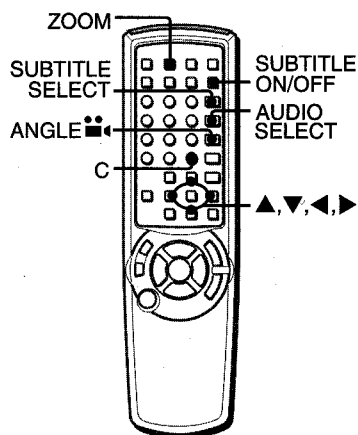
• If you specify a time greater than the length of the disc, the **⊗** symbol is displayed. In this case, repeat from step 1 with a valid time.

• Time search may not work with some discs even if they support the display of elapsed time.

En

SPECIAL DVD FEATURES

Special features for playing back DVDs are described here.



ZOOM FUNCTION (DVD ONLY)

Press ZOOM on the remote control during playback

The picture around the center of the screen is enlarged to approximately 4 times.

To move the enlarged picture

Press ▲▼◀▶.

To return to the center of the picture, press C.

To cancel zoom

Press ZOOM again.

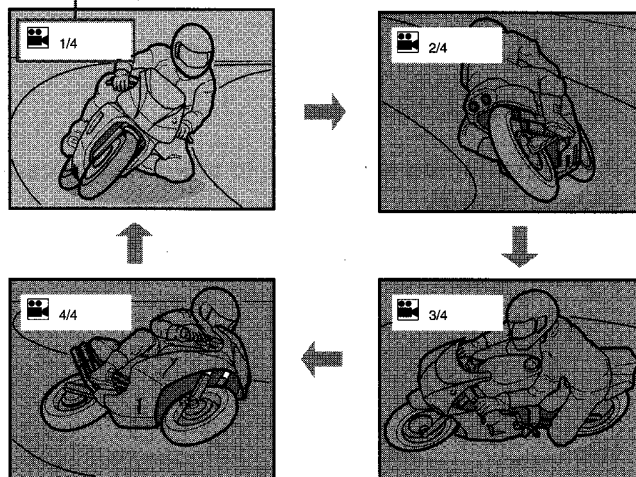
CHANGING THE ANGLE (DVD ONLY)

When playing back DVDs shot with multi-angles, you can select the angle to view the scene.


Press ANGLE repeatedly to select a viewing angle.

With each press, the angle will change.

1st out of 4 available angles for the scene.



NOTE

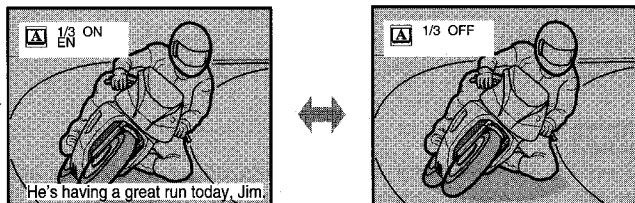
If you press ANGLE when playing back a scene or a disc without multiple viewing angles, the  symbol is displayed.

SUBTITLES (DVD ONLY)

You can display the subtitles on the screen when playing DVDs which contain them. You can also change the subtitle language if more than one is available.

Press **SUBTITLE ON / OFF** during playback.


The subtitles will be displayed.



To turn off the subtitles

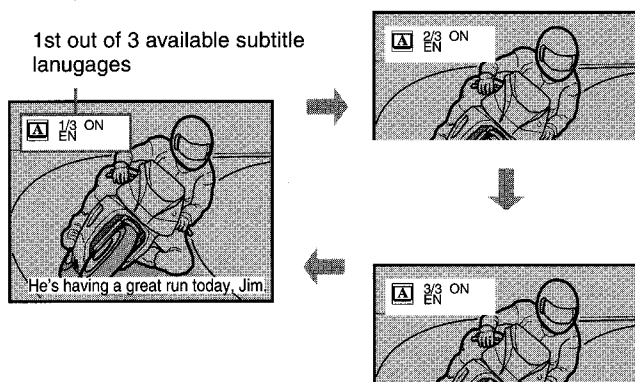
Press **SUBTITLE ON / OFF** again.

NOTE

- If you press **SUBTITLE ON / OFF** when playing a disc without subtitles, the  symbol is displayed.
- Some discs have subtitles on by default. With such discs, **SUBTITLE ON / OFF** may not allow you to remove the subtitle display.

To change the subtitle language

Press **SUBTITLE SELECT** to select the desired subtitle language.



NOTE

- The subtitle language can be changed only if the disc contains more than one subtitle language. The number of available subtitle languages varies with the disc.
- The subtitle language first displayed is specified by the subtitle setting and can be changed (see "Subtitle Language", page 45). If the preferred subtitle language is not available on the disc, the disc will determine which subtitles are shown.
- It may take some discs a few moments after you press **SUBTITLE SELECT** until the new subtitles are displayed.

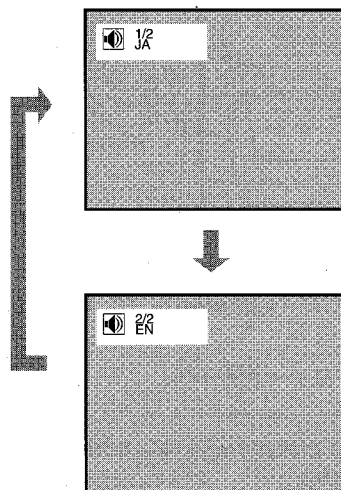
CHANGING AUDIO TRACKS (DVD ONLY)

Some DVDs have more than one audio tracks, such as soundtracks in different languages. You can change the audio track when playing such discs.

For selection of audio tracks for Karaoke DVD discs, see "Using DVD Karaoke Discs", page 37.

Press **AUDIO SELECT** during playback.

Each time you press the button, the audio track will change.

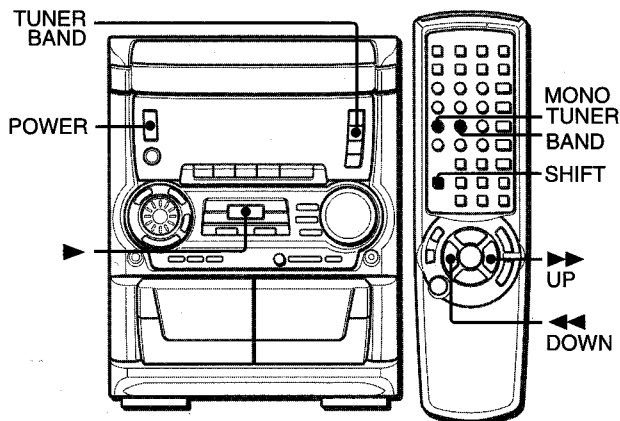


NOTE

- The audio track can be changed only if the disc contains multiple audio tracks. The number of available audio tracks varies with the disc.
- The audio track language first played is specified by the audio language setting and can be changed (see "Audio Language", page 45). If the preferred audio track language is not available on the disc, the disc will determine which audio track language is played.

En

MANUAL TUNING



1 Press TUNER BAND repeatedly to select the desired band.



When **TUNER BAND** is pressed while the power is off, the power is turned on directly.

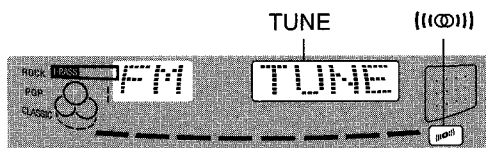
To select a band with the remote control
Press **BAND** while pressing **SHIFT**.

NOTE

When you switch to the TUNER function from the DVD/CD/VCD function, it may take up to 10 seconds before the sound actually switches to the tuner.

2 Press ◀◀ DOWN or ▶▶ UP to select a station.

Each time the button is pressed, the frequency changes. When a station is received, "TUNE" is displayed for 2 seconds. During FM stereo reception, ((Ⓜ)) is displayed.



To search for a station quickly (Auto Search)

Keep ◀◀ **DOWN** or ▶▶ **UP** pressed until the frequency starts to change rapidly. After tuning in to a station, the search stops. To stop the Auto Search manually, press ◀◀ **DOWN** or ▶▶ **UP**.

- The Auto Search may not stop at stations with very weak signals.

When an FM stereo broadcast contains noise

Press **MONO TUNER** while pressing **SHIFT** on the remote control so that "MONO" appears on the display. Noise is reduced, although reception is monaural. To restore stereo reception, repeat the above so that "MONO" disappears.

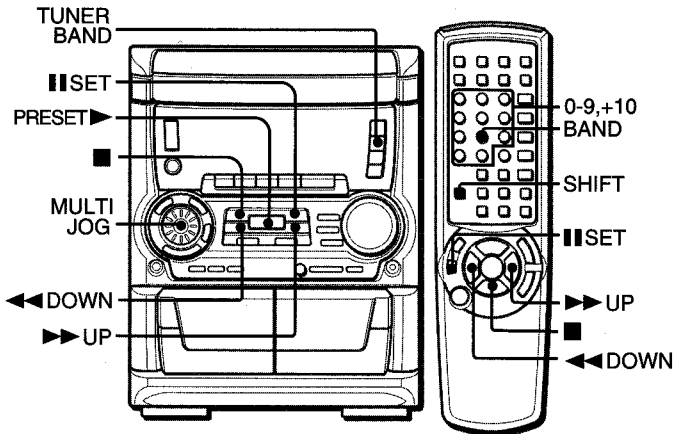
To change the AM tuning interval

The default setting of the AM tuning interval is 10 kHz/step. If you use this unit in an area where the frequency allocation system is 9 kHz/step, change the tuning interval. Press **POWER** while pressing ▶. To reset the interval, repeat this procedure.

NOTE

When the AM tuning interval is changed, all preset stations are cleared. The preset stations have to be set again.

PRESETTING STATIONS

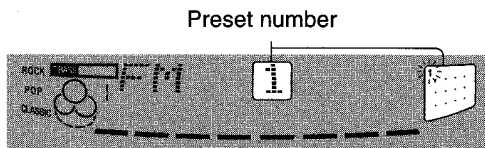


The unit can store up to a total of 32 preset stations. When a station is stored, a preset number is assigned to the station. Use the preset number to tune in to a preset station directly.

1 Press TUNER BAND to select a band, and press ◀◀ DOWN or ▶▶ UP to select a station.

2 Press II SET to store the station.

A preset number beginning from 1 in consecutive order for each band is assigned to the station.



3 Repeat steps 1 and 2.

The next station will not be stored if a total of 32 preset stations for all the bands have already been stored.

NOTE

"FULL" is displayed if you attempt to store more than 32 preset stations.

PRESET NUMBER TUNING

Use the remote control to select the preset number directly.

1 Press BAND while pressing SHIFT to select a band.

2 Press numbered buttons 0-9 and +10 to select a preset number.

Example:

To select preset number 20, press +10, +10 and 0.

To select preset number 15, press +10 and 5.

Selecting a preset number on the main unit

Press TUNER BAND to select a band. Then, press PRESET ▶ repeatedly or turn MULTI JOG.

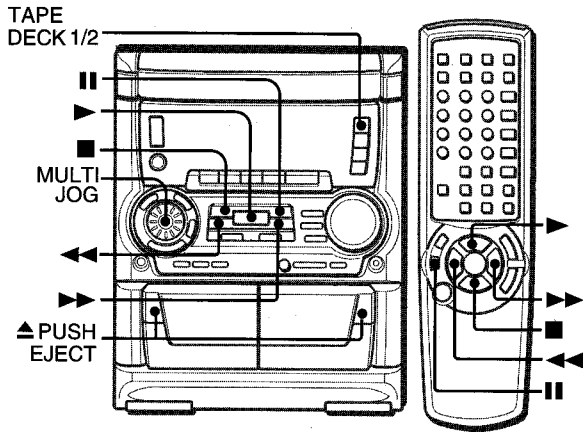
Each time PRESET ▶ is pressed, the next ascending number is selected.

To clear a preset station

Select the preset number of the station to be cleared. Then, press ■, and press II SET within 4 seconds.

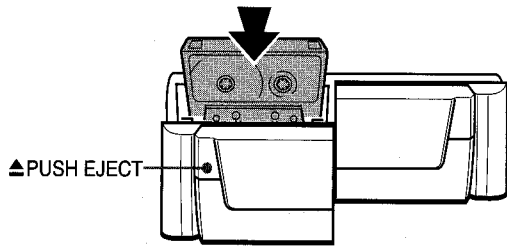
The preset numbers of all other stations in the band with higher numbers are also decreased by one.

PLAYING BACK



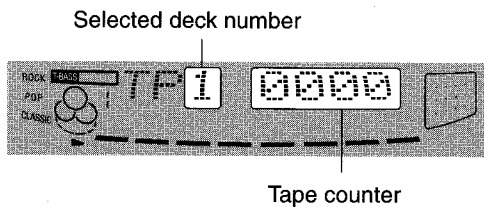
This unit is designed for optimal playback on Type I (normal) tapes.

- 1 Press TAPE DECK 1/2 and press ▲ PUSH EJECT to open the cassette holder.**



Insert a tape with the exposed side down. Push the cassette holder to close.

- 2 Press ▶ to start play.**
Only the side facing out from the unit can be played back.



To select a playing deck

When tapes are loaded in both decks, press **TAPE DECK 1/2** first to select a deck.

The selected deck number is displayed.

To stop play, press ■.

To pause play (deck 2 only), press II. To resume play, press again.

To fast forward or rewind, press ◀◀ or ▶▶. Then press ■ to stop the tape.

To start play when the power is off (Direct Play Function)

Press **TAPE DECK 1/2**. The power is turned on and play of the inserted tape begins.

To set the tape counter to 0000

Press ■ in stop mode.

The counter is also set to 0000 when the cassette holder is opened.

When tapes are loaded in both decks

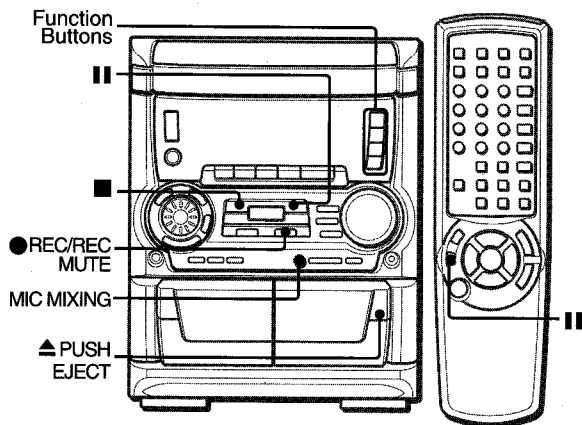
After playback on deck 1 finishes, the tape in the deck 2 will start to play without interruption and will stop at the end of the tape. (Continuous play)

NOTE

High position tapes can also be played back in this unit. When playing back a Type II tape, turn **MULTI JOG** to display "SOFT" in the display. This will set the optimum playback sound for Type II tapes. However, "SOFT" playback will be canceled if any graphic equalizer is selected (page 33), the unit is switched to a different audio source, the cassette holder is open, or when the power is turned off.

BASIC RECORDING

This section explains how to record audio from the disc player, tuner or external equipment, to a cassette tape.

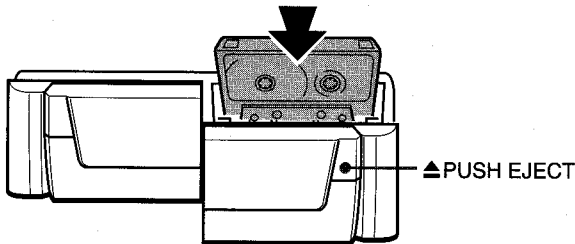


Preparation

- Use Type I (normal) tapes only.
- Set the tape to the point where recording will start.
- Note that recording is done on only one side of the tape.

1 Insert the tape to be recorded on into deck 2.

Insert the tape with the side to be recorded on first facing out from the unit.



2 Press function (DVD/CD/VCD, TUNER BAND or VIDEO/AUX) and prepare the source to be recorded.

To record from the disc player, press DVD/CD/VCD and load the disc(s).

To record from a radio broadcast, press TUNER BAND and tune in to a station.

To record from a connected source, press VIDEO/AUX.

3 Press ● REC/REC MUTE to start recording.

When recording from a connected source, start playback of the source.



When the selected function is DVD/CD/VCD, playback and recording start simultaneously.

To stop recording, press ■.

To pause recording, press II. (Applicable when the source is TUNER or VIDEO/AUX) To resume recording, press it again.

Sound adjustment during recording

The output volume and tone of the speakers or headphones are freely varied without affecting the recording.

INSERTING BLANK SPACES

Insertion of 4-second blank spaces enables you to activate the Music Sensor function. (Applicable when the source is TUNER or VIDEO/AUX.)

1 Press ● REC/REC MUTE during recording or while in recording pause mode.

REC on the display flashes for 4 seconds and 4-second blank space is made. Then, the deck enters the recording pause mode.

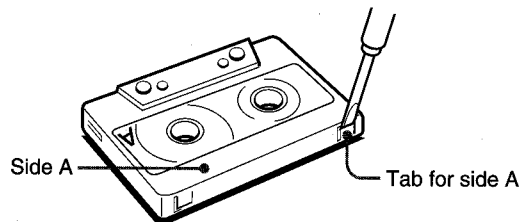
2 Press II to resume recording.

To insert a blank space of less than 4 seconds, press ● REC/REC MUTE again while **REC** is flashing.

To insert blank spaces of more than 4 seconds, after the deck enters recording pause mode, press ● REC/REC MUTE again. Each time the button is pressed, a 4-second blank space is added.

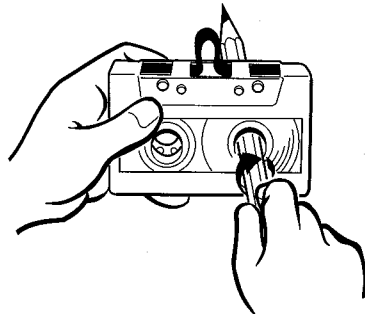
About cassette tapes

- **To prevent accidental erasure**, break off the plastic tabs on the cassette tape with a screwdriver or other pointed tool after recording.



To record on the tape again, cover the tab openings with adhesive tape, etc.

- **120-minute or longer tapes** are extremely thin and easily deformed or damaged. They are not recommended.
- **Take up any slack in the tape** with a pencil or similar tool before use. Slack tape may break or jam in the mechanism.



NOTE

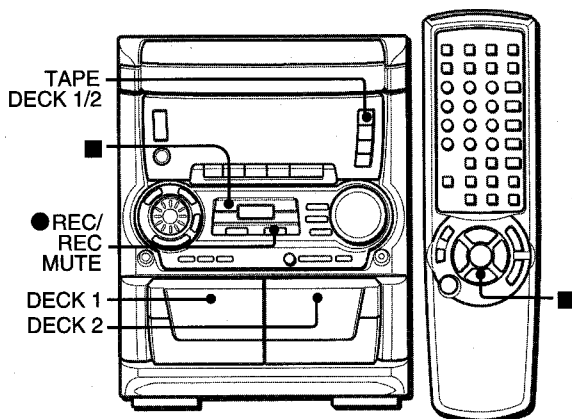
"CAN'T REC" is displayed if you try to record on a tape with the plastic tabs broken off.

TO ERASE A RECORDING

Make sure the microphone is not connected to this unit. Turn **MIC MIXING** control to **MIN** (See page 36).

- 1 Insert the tape to be erased into deck 2 and press **TAPE DECK 1/2** to display "TP 2".
- 2 Set the tape to the point where the erasure is to be started.
- 3 Press ● **REC/REC MUTE** to start the erasure.

DUBBING A TAPE MANUALLY



NOTE

- Set the tape to the point where recording will start.
- Note that recording will be done on one side of the tape only.

1 Press TAPE DECK 1/2.

2 Insert the original tape into deck 1 and the tape to be recorded on into deck 2.

Insert the tapes with the sides to be played back or recorded on facing out from the unit.

3 Press TAPE DECK 1/2 to select deck 1.

"TP 1" is displayed.

4 Press ● REC/REC MUTE to start recording.

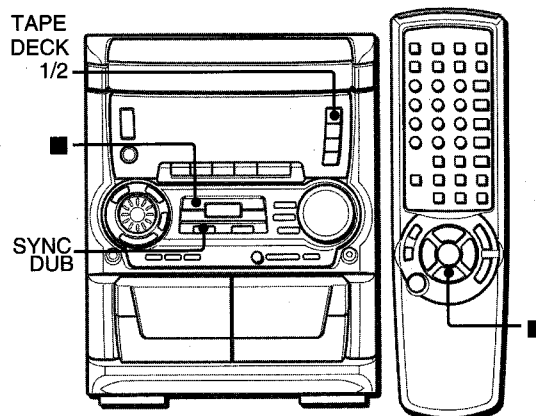
Playing and recording start simultaneously.



To stop dubbing

Press ■.

DUBBING THE WHOLE TAPE



This function allows you to make exact copies of the original tape.

NOTE

- Dubbing does not start from a point halfway in the tape.
- Note that recording will be done on one side of the tape only.

1 Press TAPE DECK 1/2.

2 Insert the original tape into deck 1 and the tape to be recorded on into deck 2.

Insert each tape with the side to be played back or recorded on facing out from the unit.

3 Press SYNC DUB to start recording.

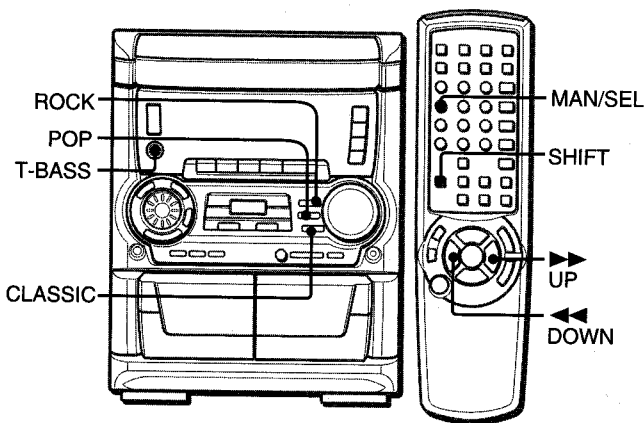


The tapes are rewound to the beginning of the front sides, and recording starts.

To stop dubbing

Press ■.

AUDIO ADJUSTMENTS



TO CHANGE THE LEFT/RIGHT BALANCE

Press **MAN/SEL** while pressing **SHIFT** on the remote control. L/R is displayed for 2 seconds. Press ◀◀ **DOWN** or ▶▶ **UP** on the remote control within these 2 seconds.

- The DOLBY PRO LOGIC front speakers level is also changed. (See page 34)

SUPER T-BASS SYSTEM

The T-BASS system enhances the realism of low-frequency sound.

Press T-BASS.

Each time it is pressed, the level changes. Select one of the three levels, or the off position to suit your preference.



NOTE

Low frequency sound may be distorted when the T-BASS system is used for a disc or tape in which low frequency sound is originally emphasized. In this case, cancel the T-BASS system.

GRAPHIC EQUALIZER

This unit provides the following three different equalization curves.

ROCK: Powerful sound emphasizing treble and bass

POP: More presence in the vocals and midrange

CLASSIC: Enriched sound with heavy bass and fine treble.

Press one of ROCK, POP or CLASSIC.

The selected equalization mode is displayed.



To cancel the selected mode

Press the selected button again. "GEQ OFF" is displayed.

4-CHANNEL MULTI-AMPLIFIER SYSTEM

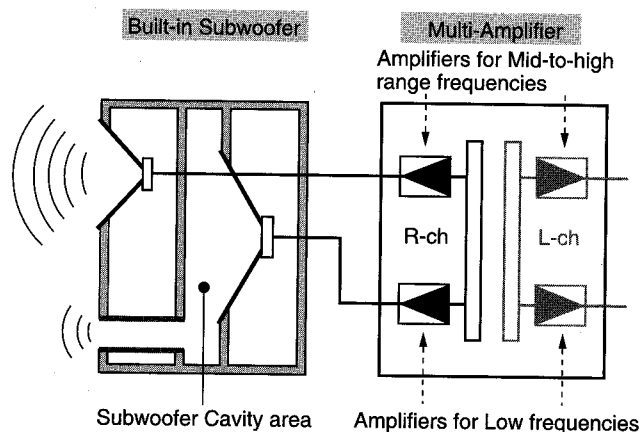
To provide reinforcement for the ultra-low frequencies, in addition to the Left/Right 2-channel amplifier used to reproduce mid-to-high-range frequencies, this system incorporates a second L/R 2-channel amplifier just for reproduction of ultra-low frequencies — making it, in effect, a 4-amplifier system. By utilizing discrete amplifiers for mid to-high-frequencies and low frequencies, high-quality sonic reproduction that is virtually free from distortion can be realized.

This Multi Amplifier System, which utilizes independent circuitry for the different frequency ranges, enables superb sonic reproduction free from distortion.

BUILT-IN SUBWOOFER SYSTEM

The built-in subwoofer system has a separate subwoofer cavity area that is part of the loudspeaker cabinet structure, which acts as a sonic filter to cut distortion components. (In the Multi Amplifier System, the ultra-low frequency signals transmitted from their own independent amplifier are reproduced in this area.) This separate construction gives a clear, rich definition to bass reproduction and it can realize clear, well-defined mid-to-high frequency signals.

And AIWA's built-in subwoofer system incorporates a subwoofer capable of powerful, satisfying bass performance with true stereo separation.




DOLBY PRO LOGIC

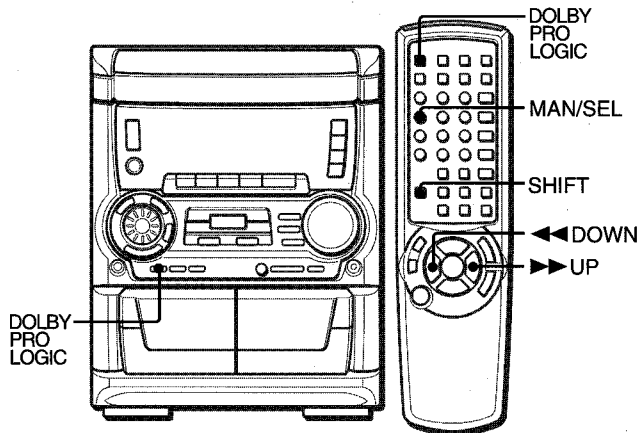
The DOLBY PRO LOGIC feature and the center and rear speakers (standard) assure full scale home theater sound. When playing back laser discs or video software that have been recorded in Dolby Surround, astonishingly realistic sound surrounds the listener to create a new level of audio/visual entertainment.

Independent control of the four sound channels allows the listener to enjoy the same type of sound reproduction experienced in movie theaters. Voices are reproduced in the front and center sound field, while ambient sounds like cars and crowds are reproduced on all sides of the listener for an incredibly lifelike audio/video experience. Please read the following carefully to "tune" the system's output to match the characteristics of your listening space.

Check the following:

- Before using the DOLBY PRO LOGIC, adjust the proper balance of speaker sound levels.
- Make sure the supplied speakers are properly connected and positioned. (See page 6)
- Make sure the TV set is properly connected. (See page 7)
- Make sure the laser disc, video tape, etc., support .

ADJUSTING SPEAKER LEVEL BALANCE



The unit is equipped with a built-in test signal generator called a noise sequencer for easy balance adjustment of all 4 channels. The sequencer outputs a noise signal that "travels" from channel to channel, enabling the simple adjustment of sound level to achieve, at the listening position, the same apparent loudness from each channel.

Use the remote control.

1 Press DOLBY PRO LOGIC to select "NORMAL".

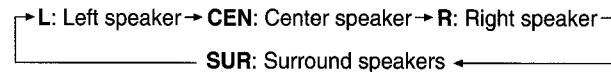
"NORMAL" is displayed.

If "PHANTOM" or "3 STEREO" is displayed, press DOLBY PRO LOGIC repeatedly until "NORMAL" is selected.

2 Press MAN/SEL while pressing SHIFT and hold it down for about 4 seconds until "L" flashes.



A noise signal is sent to each channel in turn in the following sequence.



3 Adjust the sound level of the center and the surround speakers.

While "CEN" or "SUR" is displayed, press ◀ DOWN or ▶ UP on the remote control to adjust the volume of the center or each surround speaker to match the level of the front speakers.



To adjust the balance between the left and right front speakers, see page 33. At this time, the DOLBY PRO LOGIC mode should be canceled by pressing DOLBY PRO LOGIC until the "OFF" is displayed.

4 Press MAN/SEL while pressing SHIFT again to stop the noise signal.

NOTE

When the sequencer outputs a noise signal, a clicking sound might be heard from the speakers due to the characteristics of the circuit. This is not malfunction.

About the channels

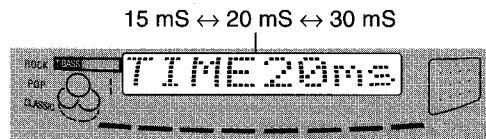
The left and right front speakers create the stereo effect.

The center speaker helps achieve precise sound positioning over a broad sound field.

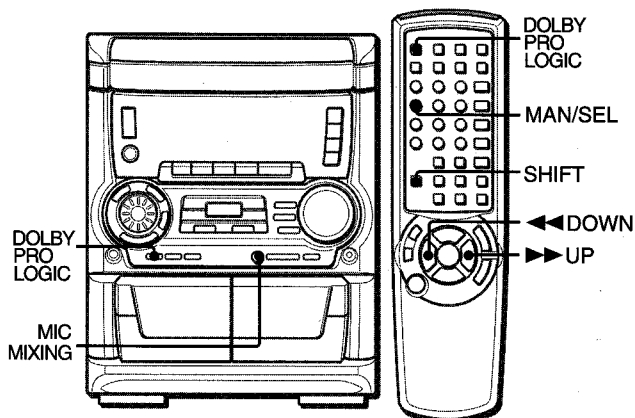
The rear-mounted surround speakers enhance the "depth" of the sound field.

To change the delay time

The surround speakers reproduce sounds a split second after the front speakers. The delay is initially set to 20 ms (milliseconds). To change this standard delay time, press MAN/SEL while pressing SHIFT on the remote control repeatedly until "TIME" is displayed. Then, press ◀ DOWN or ▶ UP. Each time one of the buttons is pressed, the delay time changes as shown below.



PLAY WITH DOLBY PRO LOGIC



1 Play back a disc (e.g. a DVD) recorded in Dolby Surround.

2 Press **DOLBY PRO LOGIC**.

"NORMAL" is selected, and the playback sound has the DOLBY PRO LOGIC effect.

To cancel DOLBY PRO LOGIC mode

Press **DOLBY PRO LOGIC** repeatedly until "OFF" is displayed.

To change the sound levels during playback

After adjusting the balance with the noise sequencer, the sound levels of the center or each surround speaker can be adjusted during playback of the disc.

1 Press **MAN/SEL** while pressing **SHIFT** on the remote control repeatedly to select "CEN" (center speaker) or "SUR" (surround speakers).

2 While the "CEN" or "SUR" is displayed, press **◀ DOWN** or **▶ UP** on the remote control to adjust the volume.

ADDITIONAL DOLBY PRO LOGIC MODES

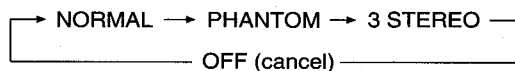
In addition to the NORMAL mode, this unit is also equipped with the PHANTOM and the 3 STEREO modes.

PHANTOM mode: Use this mode when no center speaker is connected. The center channel signals are output through the left and right speakers.

3 STEREO mode: Use this mode when no surround speakers are connected. This mode reproduces rear sounds through the front speakers.

To select PHANTOM or 3 STEREO


Press **DOLBY PRO LOGIC** repeatedly until the desired DOLBY PRO LOGIC mode is displayed. The DOLBY PRO LOGIC mode is displayed cyclically as follows.



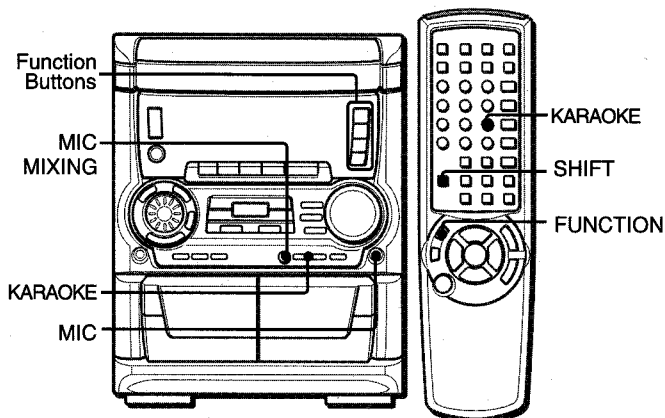
To adjust the balance of connected speaker sound levels

Carry out steps 2 to 4 of "Adjusting Speaker Level Balance", page 34.

NOTE

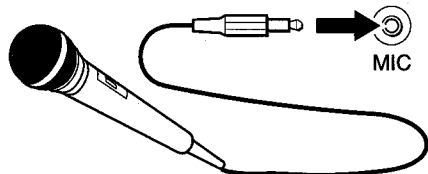
- Depending on the sound source and/or listening conditions, a surround effect may not be obtained even when the DOLBY PRO LOGIC is on.
- The full DOLBY PRO LOGIC effect cannot be obtained when using software without  mark.
- The DOLBY PRO LOGIC is automatically canceled when the headphones are plugged in or the KARAOKE function is turned on.
- Turn **MIC MIXING** to **MIN** (page 36) while the DOLBY PRO LOGIC is on. Otherwise, the DOLBY PRO LOGIC sound cannot be reproduced correctly.

MICROPHONE MIXING



A microphone (not supplied) can be connected to this unit, allowing you to sing along to music sources. Use a microphone with mini plugs (ø3.5 mm, 1/8 inch).

1 Connect your microphone to the MIC jack.



2 Press one of the function buttons to select the source to be mixed, and play the source.

3 Adjust the volume and tone of the source.

4 Turn MIC MIXING control to adjust the microphone volume.

To record microphone sound mixed with source sound

Follow the procedure for recording from the sound source (see page 31).

SYNC DUB cannot be used for mixing recording.

When not using the microphones

Turn **MIC MIXING** control to **MIN** and remove the microphone from the **MIC** jack.

NOTE

- If a microphone is held too near the speakers, a howling sound may be produced. In this case, hold the microphone away from the speakers, or decrease the microphone volume.
- If sound through the microphone is extremely loud, it may be distorted. In this case, decrease the microphone volume.

Recommended microphones

The use of unidirectional type microphones is recommended to prevent howling. Contact your local Aiwa dealer for details.

VOCAL FADER/MULTIPLEX FUNCTIONS

This unit can use discs or tapes as Karaoke sources. Use the vocal fader function for ordinary discs or tapes. Use the multiplex function for Karaoke multi-audio CDs or tapes.

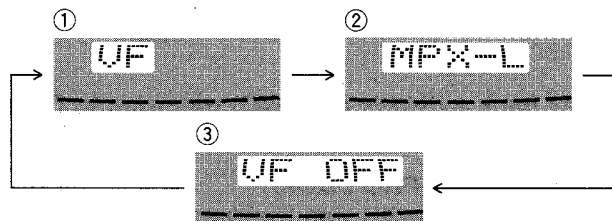
NOTE

To use DVD Karaoke discs, see "Using DVD Karaoke Discs", page 37.

Press **KARAOKE** repeatedly to select the vocal fader or multiplex function.

When using the remote control, press **KARAOKE** while pressing **SHIFT**.

Each time **KARAOKE** is pressed, one of these functions is selected cyclically.



① Vocal Fader

The singer's voice becomes softer than the accompaniment.

② Multiplex

The sound on the left channel is heard from both speakers and the sound on the right channel is muted.

To hear the sound on the right channel, see below.

③ Cancel

To change the audible channel in Multiplex function

When Multiplex is selected, "MPX-L" is displayed for 3 seconds and changes to the selected function name. After the selected function name is displayed, keep pressing **KARAOKE** until "MPX-R" is displayed.

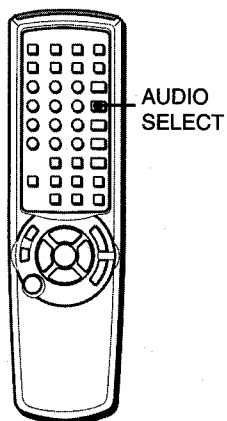
To return to the initial setting, select MPX-L.

When the power is turned off, MPX-L is restored.

NOTE

- The Karaoke functions may not operate correctly with the following kinds of CDs or tapes.
 - Those with monaural sound
 - Those recorded with strong echoes
 - Those with the vocal part recorded on the right or left side of the sound width
- While the Karaoke function is on, the sound is output as monaural.
- When the function is changed, the Karaoke function is canceled.

USING DVD KARAOKE DISCS

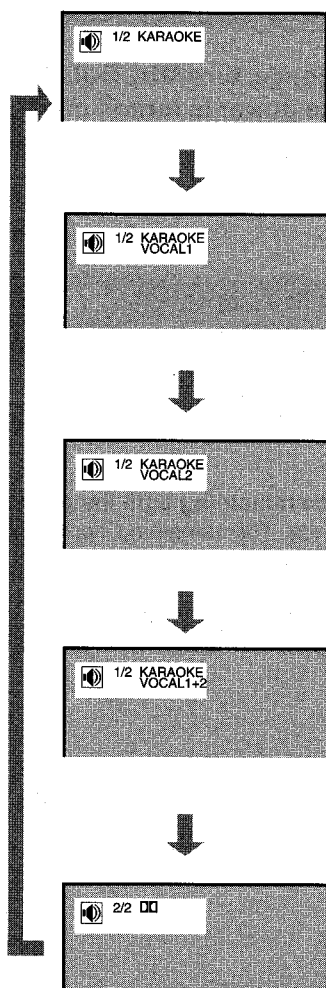


1 Follow the steps for “MICROPHONE MIXING” to prepare the sound source and the microphone.

2 Press AUDIO SELECT repeatedly during playback to select the karaoke audio.

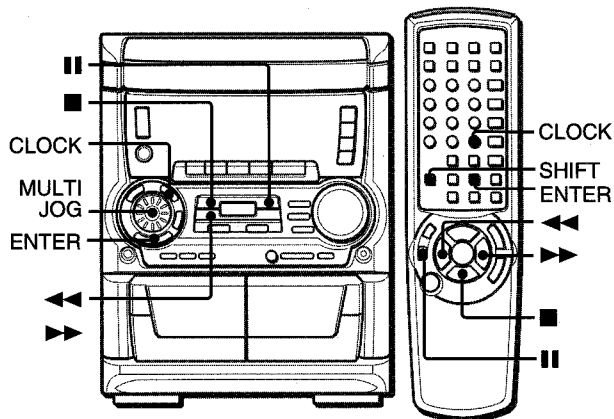
With each press, the active audio channel changes among those available.

Example: A disc has 2 audio tracks (track 1 and track 2), and track 1 has 2 vocal channels.



The available audio channels differ with the karaoke disc. Refer to the instructions on the disc for details.

SETTING THE CLOCK



1 Press CLOCK.

When using the remote control, press **CLOCK** while pressing **SHIFT**.

The clock is displayed. (The “:” between the hours and minutes flashes.) When the clock setting is canceled due to a power failure, the entire clock display flashes.



2 Within 4 seconds, turn MULTI JOG to designate the hour and the minute.

Turning **MULTI JOG** changes both the hour and the minute. **◀◀** or **▶▶** is also available instead of **MULTI JOG**. Holding these buttons down will vary the time rapidly.

3 Press ENTER or ||.

The clock starts from 00 seconds.

To restore an original clock setting

Press **CLOCK** before completing step 3 to restore the previous time setting. This cancels any new setting.

To view the clock when another display is in the display
Press **CLOCK**. The time is displayed for 4 seconds and then the original display reappears. However, the clock cannot be displayed during recording.

To switch to the 24-hour standard

Press the **CLOCK** and then press **■** within 4 seconds. Repeat the same procedure to restore the 12-hour standard.

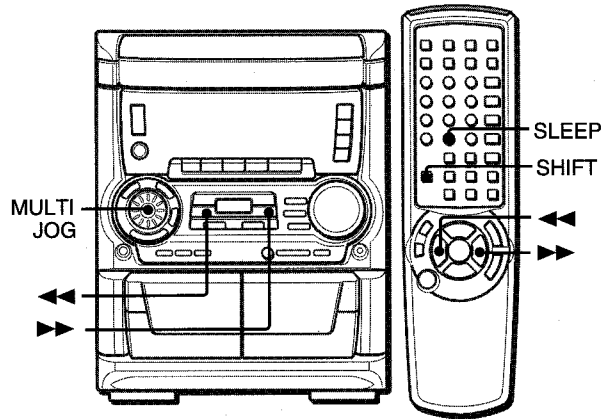
If the clock display flashes

If the display flashes when the clock is displayed, it indicates that the clock has stopped due to a power failure or the removal of the power cord. The current time needs to be reset.

NOTE

If the power-economizing mode (page 40) is on, all the display lights turn off when the power is turned off. To view the clock, press **CLOCK** so that the time is displayed for 4 seconds.

SETTING THE SLEEP TIMER



The unit can be turned off automatically at a specified time.

Use the remote control.

1 Press SLEEP while pressing SHIFT.

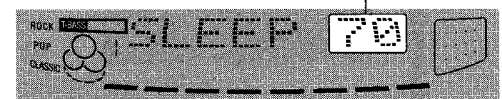


2 Within 4 seconds, turn MULTI JOG to specify the time until the power is turned off.

The time changes between 5 and 240 minutes in 5-minute steps.

◀◀ and **▶▶** are also available instead of **MULTI JOG**.

Specified time



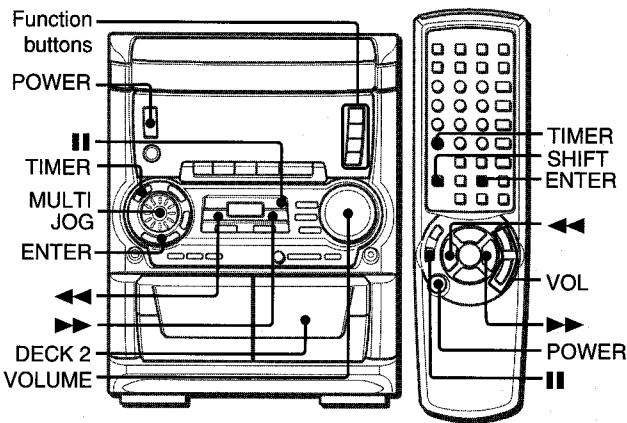
While the timer is in operation, the display indication is dimmer than usual.

To check the time remaining until the power is turned off
Press **SLEEP** once. The remaining time is displayed for 4 seconds.

To cancel the sleep timer

Press **SLEEP** twice so that “SLEEP OFF” appears on the display.

SETTING THE TIMER



The unit can be turned on at a specified time every day with the built-in timer.

When playing back an audio CD, or a VCD with the PBC function off, the unit plays back all tracks in the loaded discs in sequence.

Preparation

Make sure the clock is set correctly.

1 Press one of the function buttons to select a source.

If **TUNER BAND** is pressed, the band cannot be selected in this step.

2 Press **TIMER** repeatedly until ☺ appears on the display.

When using the remote control, press **TIMER** while pressing **SHIFT**.

Time and audio source name flash alternately.



3 Within 6 seconds, turn **MULTI JOG** to designate the timer-on time, then press **ENTER** or **II**.

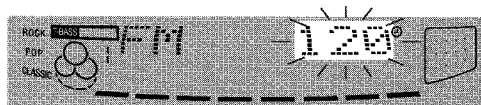
Turning **MULTI JOG** changes both the hour and the minute. ◀◀ or ▶▶ is also available instead of **MULTI JOG**. Holding these buttons down will vary the time rapidly.



4 Within 4 seconds, turn **MULTI JOG** to select the duration for the timer-activated period.

The duration can be set between 5 and 240 minutes in 5 minute steps.

◀◀ or ▶▶ is also available instead of **MULTI JOG**.



The duration will be automatically set after 4 seconds. It will also be set if **ENTER** or **II** is pressed within 4 seconds after step 4.

5 Adjust the volume.

The source sound will play at the volume level set in this step when the power is turned on by the timer.

If the volume level is set to 21 or higher, however, it will automatically be set to 20 when the power is turned on.

6 Prepare the source.

To play a disc, load the disc to be played first on tray 1.

To listen to a tape, insert the tape into deck 1 or 2.

To listen to the radio, tune in to a station.

7 Press **POWER** to turn off the power.

When the timer-on time is reached, the unit turns on and begins play with the selected source.

NOTE

You can change the source that was selected in step 1 by pressing one of the function buttons before pressing **ENTER** or **II** in step 3.

To check the timer setting

Press **TIMER**.

The selected source, the timer-on time, and the duration for the timer-activated period will be displayed for 4 seconds.

To change any of the previous setting

Carry out from step 1.

However, if you do not change the timer-on time, in step 3 just press **ENTER** twice and continue from step 4.

To cancel the timer standby mode temporarily

Press **TIMER** repeatedly so that ☺ disappears.

To restore the timer standby mode, press again to display ☺.

Using the unit while the timer is set

You can use the unit normally after setting the timer.

Before turning off the power, carry out step 5 and 6.

NOTE

- Timer playback and timer recording will not begin unless the power is turned off.
- Connected equipment cannot be turned on and off by the built-in timer of this unit. Use an external timer.
- For DVDs, timer playback may not operate if the Disc Resume setting is set to "ON". In this case, set it to "OFF" (see "Disc Resume", page 50).

TIMER RECORDING

Timer recording is applicable for **TUNER** and **VIDEO/AUX** (with an external timer) sources only.

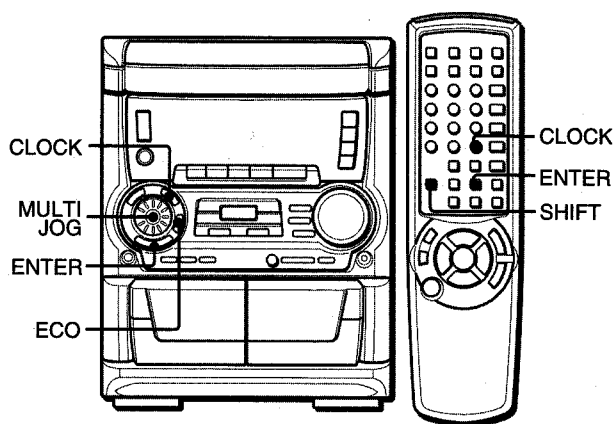
Press either **TUNER BAND** or **VIDEO/AUX** to select a source, then press **TIMER** repeatedly until ☺ flashes on the display.

Within 6 seconds, carry out the steps of "Setting the Timer" from step 3 and insert the tape to be recorded on into deck 2 after step 6.

NOTE

- When the power-economizing mode (page 40) has been turned on, the timer recording volume level will be 0 (minimum level).
- You cannot use the timer function to record from a disc or tape.

ECONOMY MODE AND THE DIMMER



SETTING POWER ECONOMIZING MODE

Setting this unit to power economizing mode reduces power consumption as follows.

- When the power is turned off, all the display lights turn off. However, if the clock is not set, the game Demo (page 41) will begin when the power is turned off.
 - If a disc or tape does not play for 10 minutes or if there is no audio input from any connected external equipment for 10 minutes when VIDEO/AUX is selected as the source, the power shuts off.
 - When the power turns on due to timer recording (page 39), the display brightness level is set to "DIMMER 3" (below), all button lamps are off, and the volume is set to the minimum level (0).
 - The display brightens only when operating the unit. When the unit has not been used for 10 seconds, the brightness level switches to the mode previously selected in "DIM MODE" (below).
- (If the display brightness level is set to "DIM-OFF", the brightness does not change. When the level is "DIMMER 3", the button lamps are also turned off.)

1 Press ECO.

"ECO MODE" will be displayed.



2 Press ENTER within 4 seconds.

The current power-economizing mode status will be displayed.

If the power-economizing mode is OFF: ECO OFF

If the power-economizing mode is ON: ECO ON

3 Turn MULTI JOG within 4 seconds to switch the power-economizing mode on or off.

Example: When "ON" is selected



The mode will be automatically set after 4 seconds. It will also be set if **ENTER** is pressed within 4 seconds after step 3.

NOTE

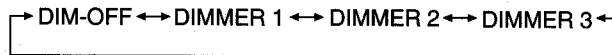
To view the clock when all the display lights turn off, press **CLOCK** so that the time is displayed for 4 seconds.

When using the remote control, press **CLOCK** while pressing **SHIFT**.

TO CHANGE THE BRIGHTNESS LEVEL OF THE DISPLAY

- 1 Press **ECO** so that "ECO MODE" is displayed.
- 2 Within 4 seconds, turn **MULTI JOG** to display "DIM MODE", and then press **ENTER** within 4 seconds.
- 3 Within 4 seconds, turn **MULTI JOG** to select the dimmer mode as below.

The mode will be automatically set after 4 seconds. It will also be set if **ENTER** is pressed within 4 seconds after step 3.



DIM-OFF: The normal display.

DIMMER 1: The illumination of the display is dimmer than usual.

DIMMER 2: The illumination of the display is dimmer than DIMMER 1.

DIMMER 3: The illumination of the display is dimmer than DIMMER 2. The spectrum analyzer and the button lamps go off.

NOTE

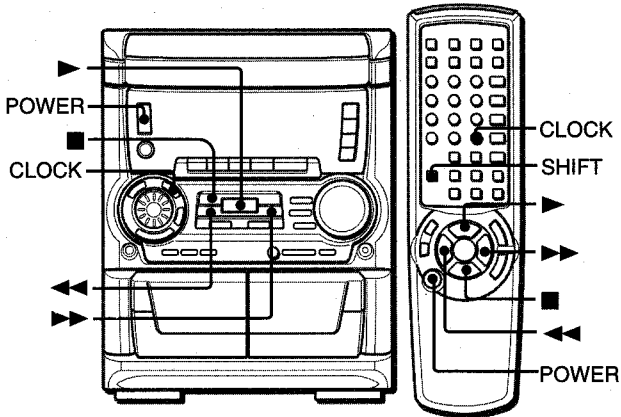
If the timer recording (page 39) is done with the economizing mode (above) set to "ON" and the power turns off, the dimmer mode will be set to "DIMMER 3" the next time the power is turned on.

GAME DEMO

When the AC cord is plugged into an AC outlet for the first time after purchase, the game Demo will begin in the display. When the power is turned on, the game Demo will end. When the power is turned off, the game Demo will begin again.

Until the clock is set, the game Demo will begin whenever the power is turned off.

When the clock is set, the game Demo will not begin even if the power is turned off.



To start or end game Demo when the clock is set

Press ► when the power is off, the game Demo will begin.

To end the game Demo, press **CLOCK**.

To play the game Demo

- 1 To start the game Demo, press ► (when the clock is set and the power is turned off) or press **POWER** to turn off the power (when the clock is not set).**

Three numbers on the display start to run.

- 2 Press ■ once.**

The number on the left side stops.

- 3 Press ■ twice to stop the remaining two numbers.**

Scoring:

20 points are given to start the game.

If all the numbers are equal, 50 points are added to the score.

If not equal, one point is subtracted.

If the gained points reach 9999, you win.

If the gained points fall to 0, you lose.

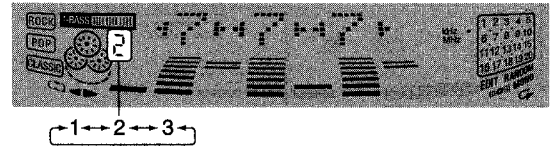
To reset the game Demo

Press **CLOCK**, then press ► (when the clock is set).

Press **POWER** twice to turn the power on/off (when the clock is not set). The game starts again.

To change the probability of equalizing the three numbers

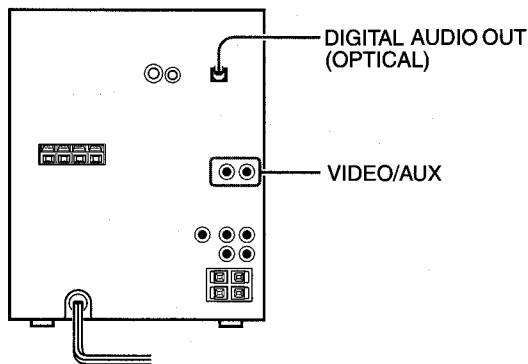
Press ◀◀ or ▶▶ repeatedly to select one of the three probability levels when playing the game Demo. The tray number indicator in the display changes between 1 and 3. As the tray number increases from 1 to 3, the higher the probability of equalizing.



NOTE

- While playing the game Demo, ■, ◀◀, ▶▶ and ► are available only for the game Demo. Turn the power on to use these buttons for the functions such as CD playing, etc.
- During the game Demo, some indicators unrelated to the actual operation light up on the display.

CONNECTING OPTIONAL EQUIPMENT



Refer to the operating instructions of the connected equipment for details.

- The connecting cords are not supplied. Obtain the necessary connecting cords.
- Consult your local Aiwa dealer for optional equipment.

VIDEO/AUX JACKS

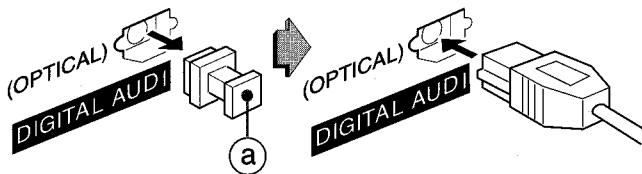
This unit can input analog sound signals through these jacks. Use a cable with RCA phono plugs to connect audio equipment (turntables, LD players, MD players, VCRs, TV, etc.). Connect the red plug to the **VIDEO/AUX R** jack, and the white plug to the **VIDEO/AUX L** jack.

When connecting a turntable

Use an Aiwa turntable equipped with a built-in equalizer amplifier.

DIGITAL AUDIO OUT (OPTICAL) JACK

This unit can output digital sound signals from the disc player through this jack. Use an optical cable to connect digital audio equipment (DAT deck, MD recorder, etc.). Remove the dust cap (a) from the **DIGITAL AUDIO OUT (OPTICAL)** jack. Then, connect an optical cable plug to the **DIGITAL AUDIO OUT (OPTICAL)** jack.



When the DIGITAL AUDIO OUT (OPTICAL) jack is not being used
Attach the supplied dust cap.

Notes on connecting to external amplifiers

This unit supports playback of discs recorded with the Dolby Digital system and the DTS Digital Surround system. To playback in the Dolby Digital system, this unit needs to be connected to a Dolby Digital decoder unit or an amplifier equipped with a Dolby Digital decoder via the **DIGITAL AUDIO OUT (OPTICAL)** jack.

To playback in the DTS Digital Surround system, this unit needs to be connected to a DTS decoder unit or an amplifier equipped with a DTS decoder via the **DIGITAL AUDIO OUT (OPTICAL)** jack.

When connecting to such decoder or a decoder-equipped amplifier, the audio output setting of must be changed appropriately in the DVD setup (see "Audio Output Setting", page 46).

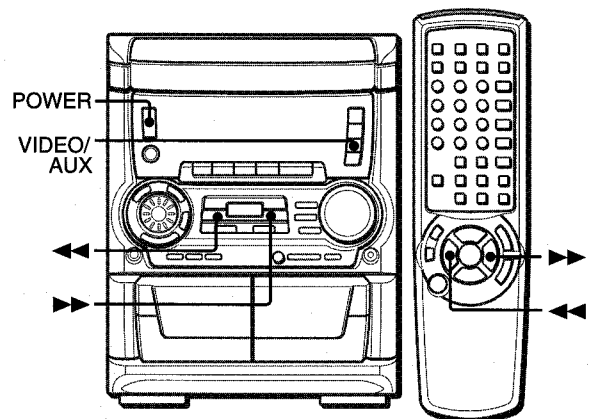
CAUTION ON CONNECTING EQUIPMENT TO THE DIGITAL AUDIO OUT (OPTICAL) JACK

If the audio output setting of the DVD setup is not set appropriately to your configuration, merely attempting to play a DVD may cause a high level of noise which could harm your ears and damage the speakers.

Carefully read and follow instructions for "Audio Output Setting", page 46.

If you are not connecting to Dolby Digital or DTS decoders or decoder-equipped amplifiers, or if you are not connecting to external amplifiers at all, you do not need to change the default audio output setting.

LISTENING TO EXTERNAL SOURCES



To play equipment connected to the VIDEO/AUX jacks proceed as follows.

1 Press VIDEO/AUX.

"VIDEO" appears on the display.

2 Play the connected equipment.

To change a source name in the display

When **VIDEO/AUX** is pressed, "VIDEO" is displayed initially. It can be changed to "VIDEO", "AUX" or "TV".

With the power on, press **POWER** while pressing **VIDEO/AUX**. Repeat the procedure to select one of the names.

To adjust the sound level of the external source

When the sound level of the external source is much higher or much lower than that of other function sources, adjust it as follows.

1 Press VIDEO/AUX and play the equipment.

2 Press ◀◀ or ▶▶ so that the sound level becomes the same as that of other function sources.

NOTE

During recording, the sound level can not be adjusted.

CUSTOMIZING DVD SETUP

Various default settings related to the disc player and the TV monitor can be changed as needed or preferred.

OVERVIEW OF THE SETUP MENU

There are 7 major menu items that can be adjusted. Their function are as follows:

1 On-screen Menu (page 44)

- Sets the on-screen guide display on or off.
- Selects a background color for the TV screen.

2 Disc Languages (page 45)

Selects the preferred audio soundtrack language, subtitle language and menu screen language for DVD playback.

3 Audio Output Setting (page 46)

Adjusts the type of signal output from the DIGITAL AUDIO OUT (OPTICAL) jack.

4 TV Aspect (page 47)

Sets the aspect ratio of the video signal sent to your connected TV set.

5 Ratings (page 48)

Sets the rating limit of DVDs allowed to playback on this unit when playing discs with restriction level encoding.

With discs that include scenes with excessive violence, for example, this setting can be used either to automatically cut such scenes or to disable playback altogether, depending on the disc.

6 PBC (page 49)

Sets your preferred setting to turn the PBC (PlayBack Control) function for video CDs on or off.

7 Disc Resume (page 50)

Sets whether the disc resume memory is retained after power off, opening of the disc tray, switching of the current disc or switching of the function.

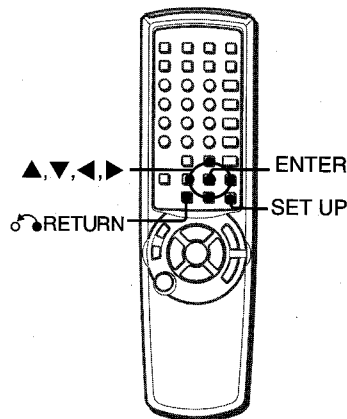
The "Audio Output Setting" and the "TV Aspect" setting need to be set specifically to match your configuration of connected equipment.

- Changing the default "Audio Output Setting" maybe needed *only if you are connecting an external decoder or amplifier*. If not, do not change its default setting.
- The default "TV Aspect" setting has to be changed *if your TV is a wide screen set*.

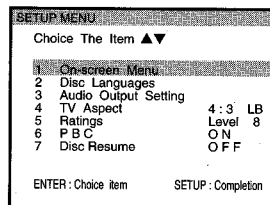
Any other setting can be changed or kept as is, according to your preferences.

BASIC OPERATIONS

The setup menu can be operated only from the remote control.



- 1 Press **SET UP** while the player is stopped. The setup screen is displayed.



- 2 Use **▲ ▼** to move the cursor (the yellow-highlighted area) to the setting to be changed.

- 3 Press **ENTER**.

The menu screen for the item you selected will be displayed.

- 4 Use **▲ ▼** to move the cursor to the desired setting.

- 5 Press **ENTER** to enter your selection.

The selected setting will be saved, and the display returns to the main setup screen of step 1.

For some settings, however, the screen will display a more detailed menu. Follow the directions shown on the screen.

- 6 Press **SET UP** to exit the setup menu.

To return to the previous screen

Press **RETURN**.

To exit the setup menu

Press **SET UP**.

To confirm your setting

- 1 Follow steps 1 to 4 above to display the setting you want to confirm.
- 2 Press **SET UP** to exit the setup menu without making changes.

NOTE

- If you pressed **RETURN** or **SET UP** before pressing **ENTER** to enter your selection, you return to the previous screen or exit the setup menu, respectively, without saving your selection. Any selection you entered by pressing **ENTER** will be saved. If you are uncertain of your present setup, follow "To confirm your setting", above.
- While the setup screen is displayed, you will not be able to load or unload a disc or perform other operations. Press **SET UP** again to exit the setup screen first.

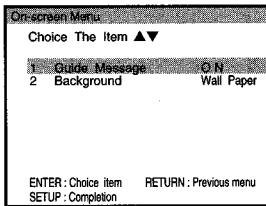
ON-SCREEN MENU

There are 2 items you can set.

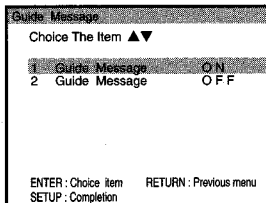
GUIDE MESSAGE

Sets whether or not to show the on-screen guide display at the upper right side of the TV screen.
The default setting is "ON".

- 1 Select "On-screen Menu" by using ▲▼ in the setup menu.
Then press ENTER.
- 2 Use ▲▼ to move the cursor to "Guide Message".



- 3 Press ENTER.
- 4 Use ▲▼ to move the cursor to the desired setting.

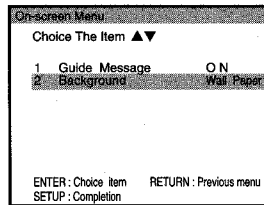


- 5 Press ENTER.
Your entry is saved.
- 6 Press ⏪ RETURN to return to the previous screen or press SET UP to exit the setup menu.

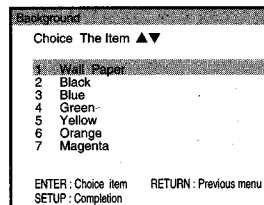
BACKGROUND

Sets the background color of the TV screen while stopped.
The default setting is "Wallpaper".

- 1 Select "On-screen Menu" by using ▲▼ in the setup menu.
Then press ENTER.
- 2 Use ▲▼ to move the cursor to "Background".



- 3 Press ENTER.
- 4 Use ▲▼ to move the cursor to the desired setting.



- 5 Press ENTER.
Your entry is saved.
- 6 Press ⏪ RETURN to return to the previous screen or press SET UP to exit the setup menu.

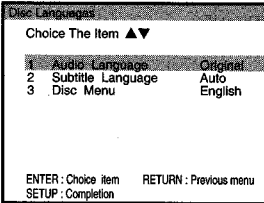
DISC LANGUAGES

Selects the preferred audio sound track language, subtitle language and menu screen language for DVD playback.

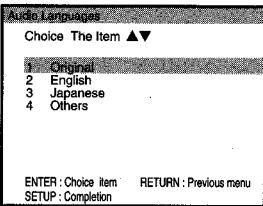
AUDIO LANGUAGE

The default setting is "Original".

- 1 Select "Disc Languages" by using ▲▼ in the setup menu. Then press ENTER.
- 2 Use ▲▼ to move the cursor to select "Audio language".



- 3 Press ENTER.
- 4 Use ▲▼ to move the cursor to the desired language and press ENTER.



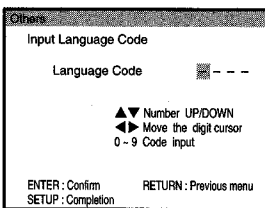
Original: Play discs in the language specified as the default on the disc. *Go to step 7.*

English: Play discs in English. *Go to step 7.*

Japanese: Play discs in Japanese. *Go to step 7.*

Others: Language code setting screen appears. *Go to step 5.*

- 5 When "Others" is selected in step 4, enter a four-digit language code by using ▲, ▼ and numbered buttons. Please refer to the list of language codes on page 53.



To move the cursor, use ◀ or ▶.

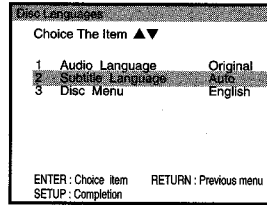
- 6 Press ENTER. Your entry is saved.
- 7 Press ⏪ RETURN to return to the previous screen or press SET UP to exit the setup menu.

If your preferred language does not exist on the disc, the disc's default language will be used.

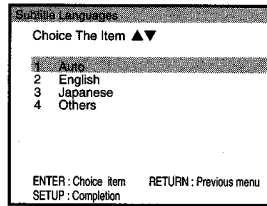
SUBTITLE LANGUAGE

The default setting is "Auto".

- 1 Select "Disc Languages" by using ▲▼ in the setup menu. Then press ENTER.
- 2 Use ▲▼ to move the cursor to "Subtitle Language".



- 3 Press ENTER.
- 4 Use ▲▼ to move the cursor to the desired language and press ENTER.



Auto: Subtitles will automatically be displayed in the same language set for AUDIO.

- Subtitles will not be displayed when the played back language is the one given priority.
- If you change the default audio language during playback, or if the default audio language does not exist on the disc, then subtitles will be displayed in the default audio language as selected by the AUDIO setting.

Example:

- English is set as the default audio language selected by the AUDIO setting.
- When playing a English audio track, no subtitles will be displayed.
- If you change the audio track to a different language during playback, English subtitles will be displayed.
- If there is no English audio track on the disc, English subtitles will be displayed.

English: Play discs in English.

Japanese: Play discs in Japanese.

Others: Language code setting screen appears. The procedure for setting the language code is the same as for "Audio Language" setting. Refer to the steps 5 and 6 of "Audio Language" setting.

- 5 Press ⏪ RETURN to return to the previous screen or press SET UP to exit the setup menu.

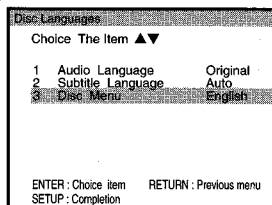
If your preferred language does not exist on the disc, the disc's default language will be used.

DISC MENU

The default setting is "English".

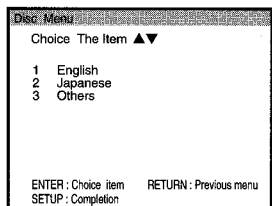
- 1 Select "Disc Languages" by using ▲▼ in the setup menu. Then press ENTER.

- 2 Use ▲▼ to move the cursor to "Disc Menu".



- 3 Press ENTER.

- 4 Use ▲▼ to move the cursor to the desired language and press ENTER.



English: Show the Disc menu in English.

Japanese: Show the Disc menu in Japanese.

Others: Language code setting screen appears. The procedure for setting the language code is the same as for "Audio Language" setting. Refer to the steps 5 and 6 of "Audio Language" setting.

- 5 Press ⏪ RETURN to return to the previous screen or press SET UP to exit the setup menu.

If your preferred language does not exist on the disc, the disc's default language will be used.

AUDIO OUTPUT SETTING

Adjusts the type of signal output from the DIGITAL AUDIO OUT (OPTICAL) jack.

Changing the default "Audio Output Setting" may be needed *only if you are connecting an external decoder or amplifier.*

If so, set up according to the type of connected equipment. If not, do not change its default setting.

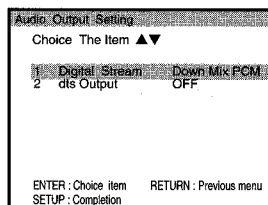
DIGITAL STREAM

Sets the digital output to be output from the optical digital audio output connector of DVD player.

The default setting is "DOWN MIX PCM".

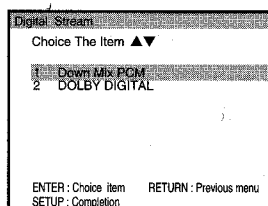
- 1 Select "Audio Output Setting" by using ▲▼ in the setup menu. Then press ENTER.

- 2 Use ▲▼ to move the cursor to "Digital Stream".



- 3 Press ENTER.

- 4 Use ▲▼ to move the cursor to the setting suited to your configuration.



Down Mix PCM

Select this option if the unit is connected via a fiber optical cable to a digital amplifier without a built-in Dolby Digital decoder.

DOLBY DIGITAL

Select this option if the unit is connected to a Dolby Digital decoder, or to an amplifier with a built-in Dolby Digital decoder, with a digital fiber optical cable.

- 5 Press ENTER.

Your entry is saved.

- 6 Press ⏪ RETURN to return to the previous screen or press SET UP to exit the setup menu.

CAUTION

If the AV amplifier is not equipped with a DOLBY DIGITAL decoder, do not select "DOLBY DIGITAL" in the "Audio Output Setting" when connecting the AV amplifier with an optical connecting cord.

Merely attempting to play a DVD may cause a high level of noise which could be harmful to your ears and damage the speakers. In such a case, be sure to select "Down Mix PCM".

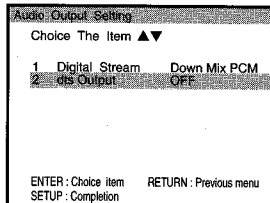
DTS OUTPUT

Sets the dts output as to whether the connected amplifier contains a DTS decoder or not.

The default setting is "dts OFF".

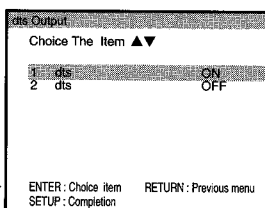
1 Select "Audio Output Setting" by using ▲▼ in the setup menu. Then press ENTER.

2 Use ▲▼ to move the cursor to "dts Output".



3 Press ENTER.

4 Use ▲▼ to move the cursor to the setting suited to your configuration.



dts ON

Select this option if the unit is connected to an amplifier with a DTS decoder.

dts OFF

Select this option if the unit is connected to an amplifier without a DTS decoder.

5 Press ENTER.

Your entry is saved.

6 Press RETURN to return to the previous screen or press SET UP to exit the setup menu.

CAUTION

If the AV amplifier is not equipped with a DTS decoder, do not select "dts" in the "Audio Output Setting" when connecting the AV amplifier with an optical connecting cord.

Merely attempting to play a DVD may cause a high level of noise which could be harmful to your ears and damage the speakers. In such a case, be sure to select "Down Mix PCM".

TV ASPECT

There are 2 options for television aspect.

The default setting is "4:3 (NORMAL TV): LETTER BOX".

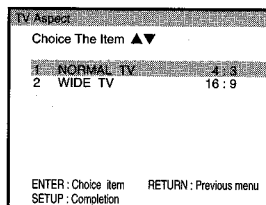
If your television has a conventional size screen (4:3), refer to "NORMAL TV". Change setting if preferred.

If your television has a wide screen (16:9), you need to change the default setting. Refer to "WIDE TV".

NORMAL TV

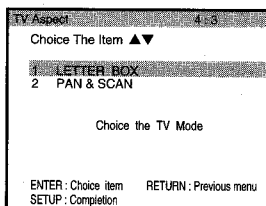
1 Select "TV Aspect" by using ▲▼ in the setup menu. Then press ENTER.

2 Use ▲▼ to move the cursor to "NORMAL TV 4:3".



3 Press ENTER.

4 Use ▲▼ to move the cursor to the suitable setting.



LETTER BOX

Media recorded in wide (16:9) format will be played in "letterbox" style, with black bands at the top and bottom of the screen.



PAN & SCAN

Media recorded in wide (16:9) format will be played at the full screen height, with the left and right portions cut off, for media which contains pan-scan encoding. Other media will be played in "letterbox" style.



5 Press ENTER.

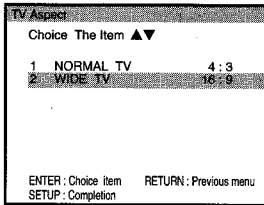
Your entry is saved.

6 Press SET UP to exit the setup menu.

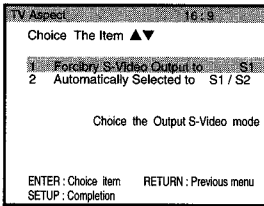
En

WIDE TV

- 1 Select "TV Aspect" by using ▲▼ in the setup menu. Then press ENTER.
- 2 Use ▲▼ to move the cursor to "WIDE TV 16:9".



- 3 Press ENTER.
- 4 Use ▲▼ to move the cursor to the suitable setting.



Forcibly S-Video Output to

Select this option when connecting to a wide TV which does not support S2.

Automatically Selected to S1/S2

Select this option when connecting to a wide TV which supports S2. The long-wide ratio is automatically changed according to a playback disc.

- 5 Press ENTER.
Your entry is saved.

- 6 Press SET UP to exit the setup menu.

NOTE

The display will not change to wide ratio if your TV set is not connected via the S-VIDEO OUT jack.

RATINGS

Sets the rating limit allowed to playback on this unit when playing discs with restriction level encoding.

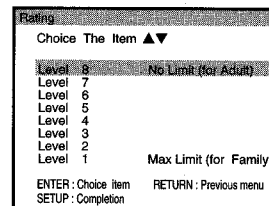
SETTING THE RATING

The default setting is "Level 8".

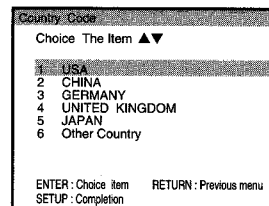
- 1 Select "Ratings" by using ▲▼ in the setup menu. Then press ENTER.
- 2 Use ▲▼ to move the cursor to the level you would like to set.

The smaller the number, the higher the level of restriction. For instance, setting the rating level to 1 will restrict playback of all discs with a rating level from 2 to 8, either by cutting certain scenes or disabling playback altogether, depending on the disc.

Check your disc for details.



- 3 Press ENTER.
- 4 Use ▲▼ to move the cursor to select the country code.



The country code needs to be set correctly, since the rating system differs with the country.

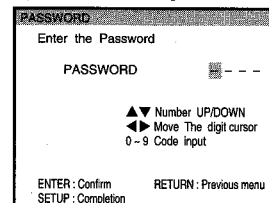
When "Other Country" is selected in the country code, the display changes to accept 4-digit numbers. Input a 4-digit country code shown on page 51 in the same way as the input of the language code (page 45).

NOTE

The country code is different from the language code stated before.

Example: country code for "United States" is "8583".

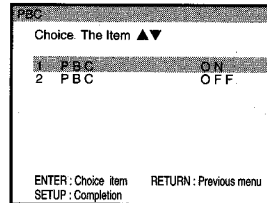
- 5 Press ENTER.
A password entry screen is displayed.



PBC

Sets your preferred setting to turn the PBC (PlayBack Control) function for video CDs on or off. The default setting is "ON".

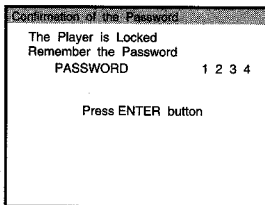
- 1 Select "PBC" by using ▲▼ in the setup menu. Then press ENTER.
- 2 Use ▲▼ to move the cursor to "ON" or "OFF".



- 3 Press ENTER. Your entry is saved.
- 4 Press SET UP to exit the setup menu.

- 6 Use the numbered buttons and ◀▶ to enter a four-digit password.

- 7 Press ENTER.
Confirm your password.



Do not forget the password you set!

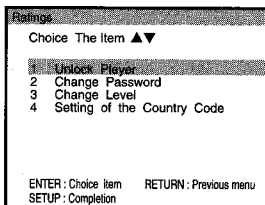
If you forget your password

Reset the unit to initial condition (see "To Reset DVD Setup", page 55) and set all the settings again including the "Ratings" setting.

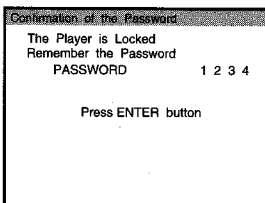
- 8 After confirming the password, press ENTER again. Your entry is saved.
- 9 Press SET UP to exit the setup menu.

CHANGING THE SETTINGS

- 1 Select "Ratings" by using ▲▼ in the setup menu. Then press ENTER.
- 2 Input four-digit password and press ENTER.
- 3 Select an item: "Unlock Player" (lifts the limitation), "Change Password", "Change Level" or "Setting of the country code".



- 4 Press ENTER.
- 5 Change the contents you would like to set, and press ENTER.
- 6 Press ENTER.
Confirm your password.



- 7 After confirming the password, press ENTER again. The contents are saved.
- 8 Press ◀RETURN to return to the previous screen or press SET UP to exit the setup menu.

DISC RESUME

Sets whether the disc resume memory is retained after power off, opening of the disc tray, switching of the current disc or switching of the function (ON) or not (OFF).

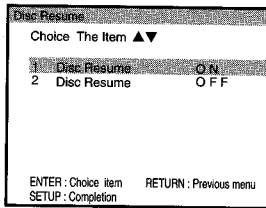
After these operations, playback starts either from the previous stopped point (ON), or from the beginning of the disc (OFF).

Note that setting Disc Resume to OFF does not turn off the resume playback feature itself. For the resume function, see "Stopping and Pausing", page 17.

The default setting is "OFF".

1 Select "Disc Resume" by using ▲▼ in the setup menu. Then press ENTER.

2 Use ▲▼ to move the cursor to "ON" or "OFF".



3 Press ENTER.

Your entry is saved.

4 Press SET UP to exit the setup menu.

When the Disc Resume is ON

When a disc is loaded, the unit checks whether it holds the resume memory data for the disc. If so, "RESUME" is displayed on the screen before the unit enters the stop mode.

In this condition, playback starts from the previous stopped point by pressing ►.

To start play from the beginning temporarily during Disc Resume ON

Press ■ in stop mode and then press ► to start playback. "RESUME OFF" is displayed in this case.

NOTE

- The unit maintains the resume data of up to 5 DVDs and up to a total of 10 audio CDs and video CDs.
- When the 6th DVD disc or the 11th audio CD or video CD is inserted, the resume data for the oldest disc is overwritten by the disc information of the new disc and deleted, even when Disc Resume is set to OFF.

COUNTRY CODES

Use these numbers to specify the country in the "Ratings" setting (page 48).

Code	Country	Code	Country	Code	Country
6570	AFGHANISTAN	6776	CHILE	7176	GREENLAND
6576	ALBANIA	6778	CHINA	7168	GRENADA
6890	ALGERIA	6788	CHRISTMAS ISLAND	7180	GUADELOUPE
6583	AMERICAN SAMOA	6767	COCOS (KEELING) ISLAND	7185	GUAM
6568	ANDORRA	6779	COLOMBIA	7184	GUATEMALA
6579	ANGOLA	7577	COMOROS	7178	GUINEA
6573	ANGUILLA	6771	CONGO	7187	GUNEA-BISSAU
6581	ANTARCTICA	6775	COOK ISLANDS	7189	GUYANA
6571	ANTIGUA AND BARBUDA	6782	COSTA RICA	7284	HAITI
6582	ARGENTINA	6773	COTE D'IVOIRE	7277	HEARD ISLAND AND MCDONALD ISLANDS
6577	ARMENIA	7282	CROATIA	7278	HONDURAS
6587	ARUBA	6785	CUBA	7275	HONG KONG
6585	AUSTRALIA	6789	CYPRUS	7285	HUNGARY
6584	AUSTRIA	6790	CZECH REPUBLIC	7383	ICELAND
6590	AZERBAIJAN	6875	DENMARK	7378	INDIA
6683	BAHAMAS	6874	DJIBOUTI	7368	INDONESIA
6672	BAHRAIN	6877	DOMINICA	7382	IRAN (ISLAMIC REPUBLIC OF)
6668	BANGLADESH	6879	DOMINICAN REPUBLIC	7381	IRAQ
6666	BARBADOS	8480	EAST TIMOR	7369	IRELAND
6689	BELARUS	6967	ECUADOR	7376	ISRAEL
6669	BELGIUM	6971	EGYPT	7384	ITALY
6690	BELIZE	8386	EL SALVADOR	7477	JAMAICA
6674	BENIN	7181	EQUATORIAL GUINEA	7480	JAPAN
6677	BERMUDA	6982	ERITREA	7479	JORDAN
6684	BHUTAN	6969	ESTONIA	7590	KAZAKHSTAN
6679	BOLIVIA	6984	ETHIOPIA	7569	KENYA
6665	BOSNIA AND HERZEGOVINA	7075	FALKLAND ISLANDS (MALVINAS)	7573	KIRIBATI
6687	BOTSWANA	7079	FAROE ISLANDS	7580	KOREA, DEMOCRATIC PEOPLE'S REPUBLIC OF
6686	BOUVET ISLAND	7074	FIJI	7582	KOREA, REPUBLIC OF
6682	BRAZIL	7073	FINLAND	7587	KUWAIT
7379	BRITISH INDIAN OCEAN TERRITORY	7082	FRANCE	7571	KYRGYZSTAN
6678	BRUNEI DARUSSALAM	7088	FRANCE, METROPOLITAN	7665	LAO PEOPLE'S DEMOCRATIC REPUBLIC
6671	BULGARIA	7170	FRENCH GUIANA	7686	LATVIA
6670	BURKINA FASO	8070	FRENCH POLYNESIA	7666	LEBANON
6673	BURUNDI	8470	FRENCH SOUTHERN TERRITORIES	7683	LESOTHO
7572	CAMBODIA	7165	GABON	7682	LIBERIA
6777	CAMEROON	7177	GAMBIA	7689	LIBYAN ARAB JAMAHIRIYA
6765	CANADA	7169	GEORGIA	7673	LIECHTENSTEIN
6786	CAPE VERDE	6869	GERMANY	7684	LITHUANIA
7589	CAYMAN ISLANDS	7172	GHANA	7685	LUXEMBOURG
6770	CENTRAL AFRICAN REPUBLIC	7173	GIBRALTAR	7779	MACAU
8468	CHAD	7182	GREECE	7771	MADAGASCAR

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Code	Country	Code	Country	Code	Country
7787	MALAWI	8076	POLAND	8479	TONGA
7789	MALAYSIA	8084	PORTUGAL	8484	TRINIDAD AND TOBAGO
7786	MALDIVES	8082	PUERTO RICO	8478	TUNISIA
7776	MALI	8165	QATAR	8482	TURKEY
7784	MALTA	8269	REUNION	8477	TURKMENISTAN
7772	MARSHALL ISLANDS	8279	ROMANIA	8467	TURKS AND CACOS ISLANDS
7781	MARTINIQUE	8285	RUSSIAN FEDERATION	8486	TUVALU
7782	MAURITANIA	8287	RWANDA	8571	UGANDA
7785	MAURITIUS	8372	SAINT HELENA	8565	UKRAINE
8984	MAYOTTE	7578	SAINT KITTS AND NEVIS	6569	UNITED ARAB EMIRATES
7788	MEXICO	7667	SAINT LUCIA	7166	UNITED KINGDOM
7077	MICRONESIA (FEDERATED STATES OF)	8077	SAINT PIERRE AND MIQUELON	8583	UNITED STATES
7768	MOLDOVA, REPUBLIC OF	8667	SAINT VINCENT AND THE GRENADINES	8577	UNITED STATES MINOR OUTLYING ISLANDS
7767	MONACO	8783	SAMOA	8589	URUGUAY
7778	MONGOLIA	8377	SAN MARINO	8590	UZBEKISTAN
7783	MONTSERRAT	8384	SAO TOME AND PRINCIPE	8685	VANUATU
7765	MOROCCO	8365	SAUDI ARABIA	8665	VATICAN CITY STATE (HOLY STATE)
7790	MOZAMBIQUE	8378	SENEGAL	8669	VENEZUELA
7777	MYANMAR	8367	SEYCHELLIES	8678	VIET NAM
7865	NAMIBIA	8376	SIERRA LEONE	8671	VIRGIN ISLANDS (BRITISH)
7882	NAURU	8371	SINGAPORE	8673	VIRGIN ISLANDS (U.S.)
7880	NEPAL	8375	SLOVAKIA	8770	WALLIS AND FUTUNA ISLANDS
7876	NETHERLANDS	8373	SLOVENIA	6972	WESTERN SAHARA
6578	NETHERLANDS ANTILLES	8366	SOLOMON ISLANDS	8969	YEMEN
7867	NEW CALEDONIA	8379	SOMALIA	8985	YUGOSLAVIA
7890	NEW ZEALAND	9065	SOUTH AFRICA	9082	ZAIRE
7873	NICARAGUA	7183	SOUTH GEORGIA AND THE SOUTH SANDWICH ISLANDS	9077	ZAMBIA
7869	NIGER	6983	SPAIN	9087	ZIMBABWE
7871	NIGERIA	7675	SRI LANKA		
7885	NIUE	8368	SUDAN		
7870	NORFOLK ISLAND	8382	SURINAME		
7780	NORTHERN MARIANA ISLANDS	8374	SVALBARD AND JAN MEYEN		
7879	NORWAY	8390	SWAZILAND		
7977	OMAN	8369	SWEDEN		
8075	PAKISTAN	6772	SWITZERLAND		
8087	PALAU	8389	SYRIAN ARAB REPUBLIC		
8065	PANAMA	8487	TAIWAN, PROVINCE OF CHINA		
8071	PAPUA NEW GUINEA	8474	TAJIKISTAN		
8089	PARAGUAY	8490	TANZANIA, UNITED REPUBLIC OF		
8069	PERU	8472	THAILAND		
8072	PHILIPPINES	8471	TOGO		
8078	PITCAIRN	8475	TOKELAU		

LANGUAGE CODES

Use these numbers to specify the language in the "Disc Languages" setting (page 45).

Code	Language	Code	Language	Code	Language
3737	Afar	4457	Hungarian	5256	Portuguese
3738	Abkhazian	4461	Armenian	5357	Quechua
3742	Afrikaans	4537	Interlingua	5449	Rhaeto-Romance
3749	Amharic	4550	Indonesian	5451	Romanian
3754	Arabic	4555	Icelandic	5457	Russian
3755	Assamese	4556	Italian	5537	Sanskrit
3760	Aymara	4559	Hebrew	5540	Sindhi
3762	Azerbaijani	4637	Japanese	5544	Serbo-Croatian
3837	Bashkir	4645	Yiddish	5545	Singhalese
3841	Byelorussian	4659	Javanese	5547	Slovak
3843	Bulgarian	4737	Georgian	5548	Slovenian
3844	Bihari	4747	Kazakh	5549	Samoa
3850	Bengali; Bangla	4748	Greenlandic	5550	Shona
3851	Tibetan	4749	Cambodian	5551	Somali
3854	Breton	4750	Kannada	5553	Albanian
3937	Catalan	4751	Korean	5554	Serbian
3951	Corsican	4755	Kashmiri	5557	Sundanese
3955	Czech	4757	Kurdish	5558	Swedish
3961	Welsh	4761	Kirghiz	5559	Swahili
4037	Danish	4837	Latin	5637	Tamil
4041	German	4850	Lingala	5641	Telugu
4062	Bhutani	4851	Laothian	5643	Tajik
4148	Greek	4856	Lithuanian	5644	Thai
4150	English	4858	Latvian; Lettish	5645	Tigrinya
4151	Esperanto	4943	Malagasy	5647	Turkmen
4155	Spanish	4945	Maori	5648	Tagalog
4156	Estonian	4947	Macedonian	5651	Tonga
4157	Basque	4948	Malayalam	5654	Turkish
4237	Persian	4950	Mongolian	5656	Tatar
4845	Finnish	4951	Moldavian	5659	Twi
4246	Fiji	4954	Marathi	5747	Ukrainian
4251	Faroese	4955	Malay	5754	Urdu
4254	French	4956	Maltese	5762	Uzbek
4261	Frisian	4961	Burmese	5845	Vietnamese
4337	Irish	5037	Nauru	5851	Volapük
4340	Scots Gaelic	5041	Nepali	5951	Wolof
4348	Galician	5048	Dutch	6044	Xhosa
4350	Guarani	5051	Norwegian	6151	Yoruba
4357	Gujarati	5154	Oriya	6244	Chinese
4437	Hausa	5237	Punjabi	6257	Zulu
4445	Hindi	5248	Polish		
4454	Croatian	5255	Pashto; Pushto		

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CARE AND MAINTENANCE

Occasional care and maintenance of the unit and the software are needed to optimize the performance of your unit.

THE UNIT

Shipping the unit

The original shipping carton and packing materials come in handy. For maximum protection, re-pack the unit as it was originally packed at the factory.

Where to set the unit

The picture and sound of a nearby TV, VCR or radio may be distorted during DVD playback. In this case, position the player away from the TV, radio or VCR, or turn off the player after removing the disc.

Keeping the surface clean

Do not use volatile liquids, such as insecticide spray, near the player. Do not leave rubber or plastic products in contact with the player for a long period of time. They will leave marks on the surface.

To clean the cabinet

Use a soft, dry cloth. If the surfaces are extremely dirty, use a soft cloth lightly moistened with a mild detergent solution. Do not use strong solvents, such as alcohol, benzene or thinner, as these might damage the surface of the unit.

To obtain a clear picture

This DVD stereo system is a high-tech, precision device. If the optical pick-up lens and disc drive parts are dirty or worn down, the picture quality will be poor. Regular inspection and maintenance are recommended after every 1,000 hours of use. (This depends on the operating environment.) For details, please contact your Aiwa dealer.

To clean the tape heads

When the tape heads are dirty;

- high frequency sound is not emitted
- the sound is not adequately high
- the sound is off-balance
- the tape cannot be erased
- the tape cannot be recorded on

After every 10 hours of use, clean the tape heads with a head cleaning cassette.

Refer to the instructions of the cleaning cassette for details.

To demagnetize the tape heads

The tape heads may become magnetized after long-term use. This may narrow the output range of recorded tapes and increase noise.

After every 20 to 30 hours of use, demagnetize the tape heads with a separately sold demagnetizing cassette.

Refer to the instructions of the demagnetizing cassette for details.

DISCS AND TAPES

Handling discs

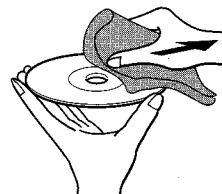
Do not touch the playback side of a disc.

Hold discs by the edges so that fingerprints will not get on the surface.

Do not stick paper or tape on a disc.

Care of discs

- When a disc becomes dirty, wipe the disc from the center out with a cleaning cloth.



- Do not use strong solvents such as alcohol, benzene, thinner, commercially available cleaners or anti-static spray intended for analog records.
- After playing a disc, store the disc in its case. Do not leave the disc in places that are hot or humid.

Care of tapes

- Store tapes in their cases after use.
- Do not leave tapes near magnets, motors, television sets, or any source of magnetism. This will downgrade the sound quality and cause noise.
- Do not expose tapes to direct sunlight, or leave them in a car parked in direct sunlight.

TROUBLESHOOTING GUIDE

If the unit fails to perform as described in these Operating Instructions, check the following guide.

GENERAL

There is no picture.

- Is the unit connected correctly? (→ page 6)
- Are the video connections correct and firmly attached?
- Is the video input selection set correctly on the TV set?

There is no sound.

- Is the AC cord connected properly? (→ page 6)
- Is there a bad connection?
- There may be a short circuit in the speaker terminals.
→ Disconnect the AC cord, then correct the speaker connections.
- Was an incorrect function button pressed? (→ page 9)
- Is the volume set properly? Do you have headphones plugged in?
- There will be no audio during the following DVD playback modes: slow playback, Frame Advance, fast forward and fast reverse.

Sound is emitted from one speaker only.

- Is the other speaker disconnected?

The output sound is not stereo.

- Is the Karaoke function turned on? (→ page 36)

An erroneous display or a malfunction occurs.

- Reset the unit as stated below.


The power is not turned on.

- Disconnect the AC cord, and connect it again in a few seconds.

The remote control does not work or works poorly.

- Are the remote control batteries installed correctly? (→ page 8)
- Is the remote control too far from the main unit? Is there something in the way?
- Are the remote control batteries getting weak?
- Is the main unit in sunlight or strong fluorescent light?
- Are you correctly holding down the **SHIFT** key when needed?

The DOLBY PRO LOGIC system does not work or works poorly.

- Are the speakers connected properly? Have they been adequately level balanced? (→ page 6, 34)
- Is the headphone set plugged in or the Karaoke function turned on inadvertently?
- Is the video software marked with the  logo?
- Has the appropriate DOLBY PRO LOGIC mode been selected?

DISC PLAYER SECTION

The disc does not play or plays poorly.

- Is the disc correctly placed? (→ page 10, 16)
- Is your desired disc selected properly?
- Is the disc dirty? (→ page 54)
- Is the lens affected by condensation?
→ Wait approximately one hour and try again.
- Are you trying to use a disc that can't be played, such as a CD-ROM? (→ page 5)
- [DVD only] Does the disc exceed the specified rating level? (→ page 48)
- [DVD and VCD only] Is the disc recorded in the NTSC color system?
→ Use a NTSC color system disc.

- [DVD only] Is the unit connected through a video deck, through a selector switch, or to a TV set with a built-in video deck?
→ The picture may be bad when used with some television sets or projectors, due to the DVD copy protection scheme. The picture quality may also suffer if the DVD player is connected through a selector switch with other video equipment. Try turning off the power to the other video equipment.
- The picture quality may be somewhat poor when paused, during Frame Advance, fast forward or fast reverse. This is normal.

The DVD does not play according to your preferences.

- Check your set up. (→ page 43)
- Many DVD features, such as the menu, subtitles, multi-audio, multi-angle, rating functions, are dependent on the DVD software itself. Check the instructions for your disc.

TUNER SECTION

There is constant, wave-like static.

- Is the antenna connected properly? (→ page 6)
- Is the signal weak?
→ Connect an outdoor antenna.

The reception contains noise interferences or the sound is distorted.

- Is the system picking up external noise or multipath distortion?
→ Change the orientation of the antenna.
- Move the unit away from other electrical appliances.

CASSETTE DECK SECTION

The tape does not run.

- Is deck 2 in pause mode? (→ page 30)

The sound is off-balance or not adequately high.

- Is the playback head dirty? (→ page 54)

Recording is not possible.

- Is the erasure prevention tab on the tape broken off? (→ page 31)
- Is the recording head dirty? (→ page 54)

Erasure is not possible.

- Is the erasure head dirty? (→ page 54)
- Is a metal tape being used?

High frequency sound is not emitted.

- Is the recording/playback head dirty? (→ page 54)

TO RESET THE UNIT

If an unusual condition occurs in the display window or the cassette decks, reset the unit as follows.

- 1 Press **POWER** to turn off the power.
- 2 Press **POWER** to turn the power back on while pressing **■**.

Everything stored in memory after purchase is canceled. If the power cannot be turned off in step 1 because of a malfunction, reset by disconnecting the AC cord, and connect it again. Then carry out step 2.

TO RESET DVD SETUP

If you forget your password for the DVD rating-level setting, or if you want to reset the DVD setup setting to default for any other reason, reset as follows.

- 1 Press **DVD/CD/VCD**.
- 2 Press **ON SCREEN DISPLAY** while pressing **DVD/CD/VCD** until "CLEAR" is displayed on the unit's display.
- 3 Press **POWER** to turn off the power.
- 4 Press **POWER** again to turn the power back on.

SPECIFICATIONS

Main unit CX-NDV5

FM tuner section

Tuning range	87.5 MHz to 108 MHz
Usable sensitivity (IHF)	13.2 dBf
Antenna terminals	75 ohms (unbalanced)

AM tuner section

Tuning range	530 kHz to 1710 kHz (10 kHz step) 531 kHz to 1602 kHz (9 kHz step)
Usable sensitivity	350 μ V/m
Antenna	Loop antenna

Amplifier section

Mid-high frequency amplifier	Front
Power output	15 W + 15 W (200 Hz – 20 kHz, THD less than 1%, 8 ohms)
Total harmonic distortion	0.07 % (10 W, 1 kHz, 8 ohms, DIN AUDIO)

Low frequency amplifier	Rear (Surround)
Power output	35 W + 35 W (50 Hz – 200 Hz, THD less than 1%, 4 ohms)
Total harmonic distortion	0.07 % (25 W, 135 Hz, 4 ohms, DIN AUDIO)

	Center
	20 W (1 kHz, THD less than 1%, 8 ohms)

	Inputs
	VIDEO/AUX: 300 mV (adjustable)
	MIC: 1.0 mV (10 k ohms)

	Outputs
	SPEAKERS HIGH FREQ: accept speakers of 8 ohms or more
	SPEAKERS LOW FREQ: accept speakers of 4 ohms or more
	SURROUND SPEAKERS: accept speakers of 8 ohms to 16 ohms
	CENTER SPEAKER: accept speakers of 8 ohms or more
	PHONES (stereo jack): accepts headphones of 32 ohms or more

	Cassette deck section
Track format	4 tracks, 2 channels stereo
Frequency response	50 Hz – 15000 Hz
Recording system	AC bias
Heads	Deck 1: Playback head \times 1 Deck 2: Recording/playback head \times 1, erase head \times 1

Disc player section

Signal format	NTSC
Supported discs	DVD video discs 12 cm (single-sided single-layer, single-sided double-layer, double-sided-double layer) 8 cm (single-sided single-layer, single-sided double-layer, double-sided-double layer) Compact discs (CD-DA, video CD) 12 cm and 8 cm discs

S2 video output

	Y output: 1 Vp-p (75 ohms, sync negative)
	C output: 0.286 Vp-p

Video output

	Video composit output 1 Vp-p (75 ohms, sync negative) One RCA jack
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Operating conditions	5°C to 35°C (41°F to 95°F)
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General

Power requirements	120 V AC, 60 Hz
Power consumption	185 W
Dimensions of main unit (W \times H \times D)	260 \times 324 \times 355 mm (10 ¹ / ₄ \times 12 ⁷ / ₈ \times 14 in.)
Weight of main unit	9.8 kg (21 lbs 10 oz.)

Speaker system SX-WNA555

Cabinet type	2 way, built-in subwoofer (magnetic shielded type)
Speakers	Subwoofer: 160 mm (6 ³ / ₈ in.) cone type Full range: 100 mm (4 in.) cone type
Impedance	4 ohms/8 ohms
Output sound pressure level	87 dB/W/m
Dimensions (W \times H \times D)	240 \times 324 \times 275 mm (9 ¹ / ₂ \times 12 ⁷ / ₈ \times 10 ⁷ / ₈ in.)
Weight	4.8 kg (10 lbs 9 oz.)

Specifications and external appearance are subject to change without notice.

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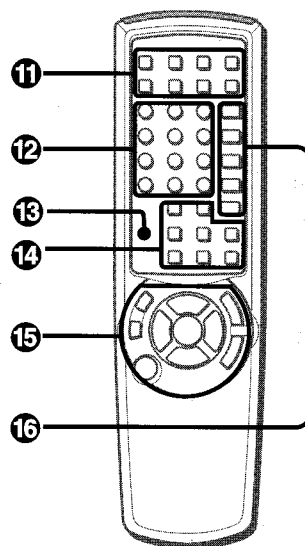
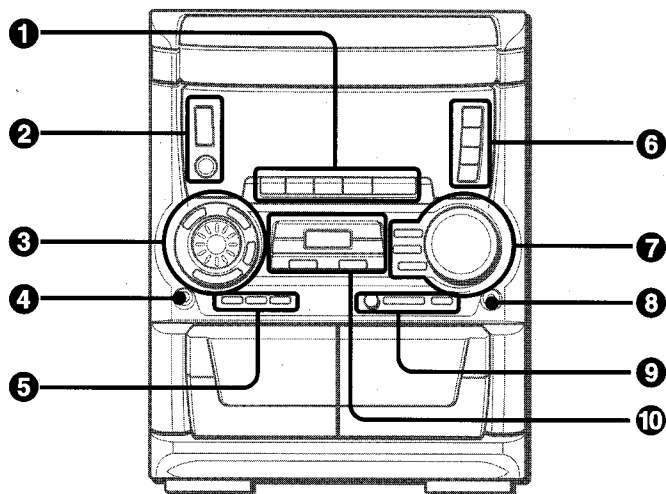
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For assistance and information

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