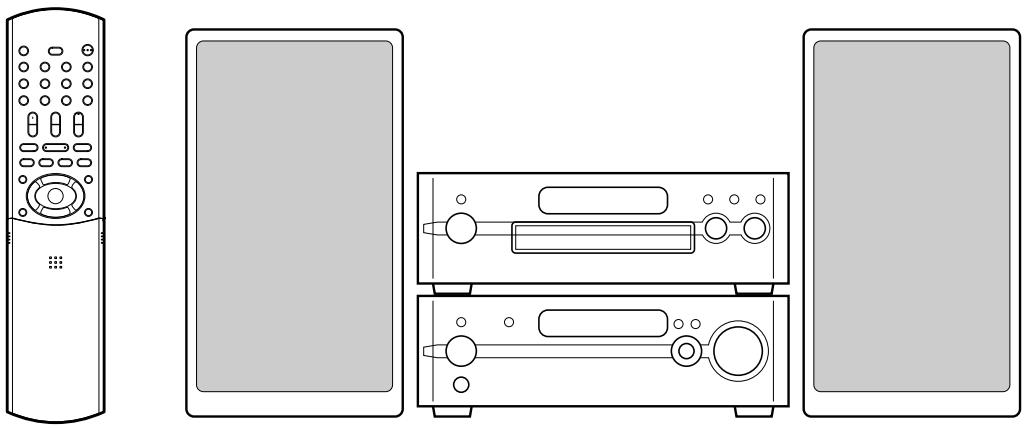
JVC

English

COMPACT COMPONENT SYSTEM

EX-A10

Consists of RX-EXA10, SP-EXA10 and XV-EXA10



INSTRUCTIONS

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

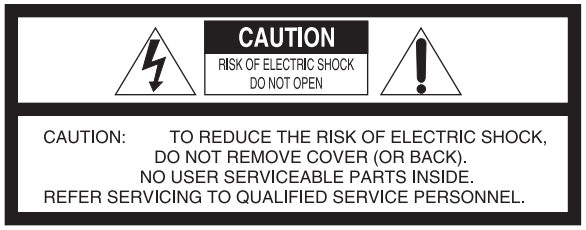
Model No. _____

Serial No. _____

LVT1403-002B
[J, C, UJ]

Warnings, cautions and others

(For U.S.A.)



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.

(For U.S.A.)

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

(For U.S.A.)

INFORMATION

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 a circuit different from that to which the receiver is connected.
Consult the dealer or an experienced radio/TV technician for help.

(For U.S.A.)

Note to CATV system installer:

This reminder is provided to call the CATV system installer’s attention to Section 820-40 of the NEC which provides guidelines for proper grounding and, in particular, specifies that the cable ground shall be connected to the grounding system of the building, as close to the point of cable entry as practical.

CAUTION

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

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

ATTENTION

Afin d'éviter tout risque d'électrocution, d'incendie, etc.:

1. Ne pas enlever les vis ni les panneaux et ne pas ouvrir le coffret de l'appareil.
2. Ne pas exposer l'appareil à la pluie ni à l'humidité.

CAUTION — ⏻/I button!

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

The ⏻/I button in any position does not disconnect the mains line.

- When the system is on standby, the STANDBY lamp lights red.
- When the system is turned on, the STANDBY lamp goes off. The power can be remote controlled.

ATTENTION - Touche ⏻/I!

Déconnectez la fiche d'alimentation secteur pour couper l'alimentation complètement (le témoin STANDBY s'éteint).

La touche ⏻/I, dans n'importe quelle position, ne déconnecte pas le système du secteur.

- Quand le système est en attente, le témoin STANDBY est allumé en rouge.
- Quand le système est sous tension, le témoin STANDBY s'éteint.
  L'alimentation ne peut pas être télécommandée.

CAUTION

- Do not block the ventilation openings or holes.
  (If the ventilation openings or holes are blocked by a newspaper or cloth, etc., the heat may not be able to get out.)
- Do not place any naked flame sources, such as lighted candles, on the apparatus.
- When discarding batteries, environmental problems must be considered and local rules or laws governing the disposal of these batteries must be followed strictly.
- Do not expose this apparatus to rain, moisture, dripping or splashing and that no objects filled with liquids, such as vases, shall be placed on the apparatus.

ATTENTION

- Ne bloquez pas les orifices ou les trous de ventilation.
  (Si les orifices ou les trous de ventilation sont bloqués par un journal un tissu, etc., la chaleur peut ne pas être évacuée correctement de l'appareil.)
- Ne placez aucune source de flamme nue, telle qu'une bougie, sur l'appareil.
- Lors de la mise au rebut des piles, veuillez prendre en considération les problèmes de l'environnement et suivre strictement les règles et les lois locales sur la mise au rebut des piles.
- N'exposez pas cet appareil à la pluie, à l'humidité, à un égouttement ou à des éclaboussures et ne placez pas des objets remplis de liquide, tels qu'un vase, sur l'appareil.

(For U.S.A. or Canada models)

IMPORTANT FOR LASER PRODUCTS / IMPORTANT POUR PRODUITS LASER

1. CLASS 1 LASER PRODUCT
2. **CAUTION:** Do not open the top cover. There are no user serviceable parts inside the unit; leave all servicing to qualified service personnel.
3. **CAUTION:** VISIBLE AND / OR INVISIBLE CLASS 1M LASER RADIATION WHEN OPEN. DO NOT STARE INTO BEAM OR VIEW DIRECTLY WITH OPTICAL INSTRUMENTS.
4. REPRODUCTION OF LABEL: CAUTION LABEL, PLACED INSIDE THE UNIT.

1. PRODUIT LASER CLASSE 1
2. **ATTENTION:** N'ouvrez pas le couvercle supérieur. Il n'y a aucune pièce réparable par l'utilisateur à l'intérieur de l'appareil; confiez toute réparation à un personnel qualifié.
3. **ATTENTION:** RAYONNEMENT LASER VISIBLE ET / OU INVISIBLE DE CLASSE 1M UNE FOIS OUVERT. NE PAS FIXER LE FAISCEAU NI REGARDER DIRECTEMENT AVEC DES INSTRUMENTS OPTIQUES.
4. REPRODUCTION DE L'ÉTIQUETTE: ÉTIQUETTE DE PRÉCAUTION PLACÉE À L'INTERIEUR DE L'APPAREIL.

CAUTION	ATTENTION	AVISO	ADVARSEL	VARO!	VARNING
VISIBLE AND / OR INVISIBLE CLASS 1M LASER RADIATION WHEN OPEN. DO NOT STARE INTO BEAM OR VIEW DIRECTLY WITH OPTICAL INSTRUMENTS. (ENG)	RAYONNEMENT LASER VISIBLE ET / OU INVISIBLE DE CLASSE 1M UNE FOIS OUVERT. NE PAS FIXER LE FAISCEAU NI REGARDER DIRECTEMENT AVEC DES INSTRUMENTS OPTIQUES. (FRA)	RADIACIÓN LÁSER DE CLASE 1M VISIBLE Y / O INVISIBLE CUANDO ESTÁ ABIERTO. NO MIRAR FIJAMENTE EL HAZ NI OBSERVAR DIRECTAMENTE CON INSTRUMENTAL ÓPTICO. (ESP)	SYNLIG OG / ELLER USYNLIG KLASSE 1M-LASERSTRÅLING VED ÅBNING. SE IKKE IND I STRÅLEN – HELLER IKKE MED OPTISKE INSTRUMENTER. (DNK)	AVATTAESSA OLET ALTTIINA NÄKYVÄLLE JA / TAI NÄKYMÄTTÖMÄLLE LUOKAN 1M LASERSÄTEILYLLE. ÄLÄ KATSO SUORAAN SÄTEESEEN TAI TARKASTELE SITÄ OPTISEN LAITTEEN LÄPI. (FIN)	SYNLIG OCH / ELLER OSYNLIG LASERSTRÅLNING, KLASS 1M, NÄR DENNA DEL ÄR ÖPPNAD. STIRRA EJ IN I STRÅLEN OCH BETRAKTA EJ STRÅLEN MED OPTISKA INSTRUMENT. (SWE)

(For models other than U.S.A. or Canada models)

IMPORTANT FOR LASER PRODUCTS / IMPORTANT POUR PRODUITS LASER

1. CLASS 1 LASER PRODUCT
2. **CAUTION:** Do not open the top cover. There are no user serviceable parts inside the unit; leave all servicing to qualified service personnel.
3. **CAUTION:** Visible and invisible laser radiation when open and interlock failed or defeated. Avoid direct exposure to beam.
4. REPRODUCTION OF LABEL: CAUTION LABEL, PLACED INSIDE THE UNIT.

1. PRODUIT LASER CLASSE 1
2. **ATTENTION:** N'ouvrez pas le couvercle supérieur. Il n'y a aucune pièce réparable par l'utilisateur à l'intérieur de l'appareil; confiez toute réparation à un personnel qualifié.
3. **ATTENTION:** Risque de radiations laser visible et invisible quand l'appareil est ouvert et que le système de verrouillage ne fonctionne pas ou a été mis hors service. Évitez toute exposition directe au rayon.
4. REPRODUCTION DE L'ÉTIQUETTE: ÉTIQUETTE DE PRÉCAUTION PLACÉE À L'INTERIEUR DE L'APPAREIL.

CAUTION : Visible and invisible laser radiation when open and interlock failed or defeated. AVOID DIRECT EXPOSURE TO BEAM. (e)	**ADVARSEL :** Synlig og usynlig laserstråling når maskinen er åben eller interlocken fejler. Undgå direkte eksponering til stråling. (d)	**VARNING :** Synlig och osynlig laserstrålning när den öppnas och spärren är urkopplad. Betrakta ej strålen. (s)	**VARO :** Avattaessa ja suojalukitus ohitettuna tai viallisena olet alttiina näkyvälle ja näkymättömälle lasersäteilylle. Vältä säteen kohdistumista suoraan itseesi. (f)

For Canada/pour le Canada

CAUTION: TO PREVENT ELECTRIC SHOCK, MATCH WIDE BLADE OF PLUG TO WIDE SLOT, FULLY INSERT.
ATTENTION: POUR EVITER LES CHOCS ELECTRIQUES, INTRODUIRE LA LAME LA PLUS LARGE DE LA FICHE DANS LA BORNE CORRESPONDANTE DE LA PRISE ET POUSSER JUSQUAU FOND.

For Canada/pour le Canada

THIS DIGITAL APPARATUS DOES NOT EXCEED THE CLASS B LIMITS FOR RADIO NOISE EMISSIONS FROM DIGITAL APPARATUS AS SET OUT IN THE INTERFERENCE-CAUSING EQUIPMENT STANDARD ENTITLED "DIGITAL APPARATUS", ICES-003 OF THE DEPARTMENT OF COMMUNICATIONS.
CET APPAREIL NUMERIQUE RESPECTE LES LIMITES DE BRUITS RADIOELECTRIQUES APPLICABLES AUX APPAREILS NUMIRIQUES DE CLASSE B PRESCRITES DANS LA NORME SUR LE MATERIEL BROUILLEUR: "APPAREILS NUMERIQUES", NMB-003 EDICTEE PAR LE MINISTRE DES COMMUNICATIONS.

CAUTION — Proper Ventilation

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

Top/Front/Back/Sides: No obstructions should be placed in the areas shown by the dimensions below.

Bottom: Place on the level surface. Maintain adequate air path for ventilation by placing on a stand with a height of 10 cm ($3\frac{15}{16}$″) more.

In addition, maintain the best possible air circulation.

Attention: Ventilation correcte

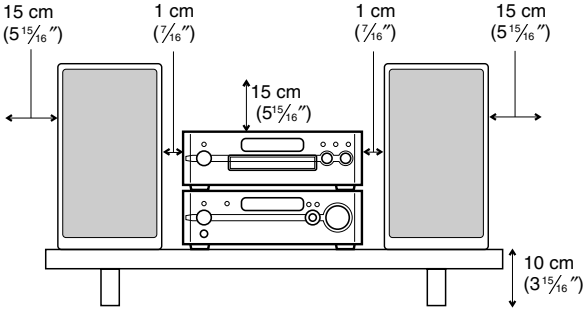
Pour éviter tout risque d'électrocution et d'incendie, et pour ne pas endommager les appareils, placez-les de la façon suivante:

Faces supérieure /avant / arrière / côtés : Aucune obstruction ne doit se trouver dans les zones indiquées par les dimensions ci-dessous.

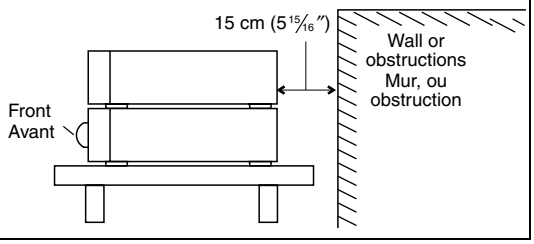
Bas : Placez l'appareil sur une surface plane. Maintenez une entrée d'air adéquate pour la ventilation en plaçant l'appareil sur un support avec une hauteur d'au moins 10 cm ($3\frac{15}{16}$″).

De plus, maintenez la meilleure circulation d'air possible.

Front view
Vue avant



Side view
Vue de côté



[European Union only]
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Supplied accessories

Check to be sure you have all of the supplied accessories.
The number in parentheses is the quantity of the items supplied. If anything is missing, contact your dealer immediately.

- Remote control (1)
- Batteries (2)
- FM antenna (1)
- AM loop antenna (1)
- Speaker cords (4)
- Audio cord (1)
- Optical digital cord (1)
- Synchronization cord (1)
- Composite video cord (1)
- AC plug adaptor* (2)

NOTE

** The AC plug adaptor is not supplied for U.S.A. and Canada models.*

CAUTION

- **Do not fold the optical digital cord as this may damage the inner wire.**

How to read this manual

- This manual explains the operations assuming that you will use the remote control. Some buttons on the receiver or the DVD player are the same as those on the remote control. You can use either button in this case.
- Some diagrams in this manual are simplified or exaggerated for the purpose of explanation.
- You can operate some functions differently from the explanation given in this manual.
- The following marks refer to the usable discs for the explained function.

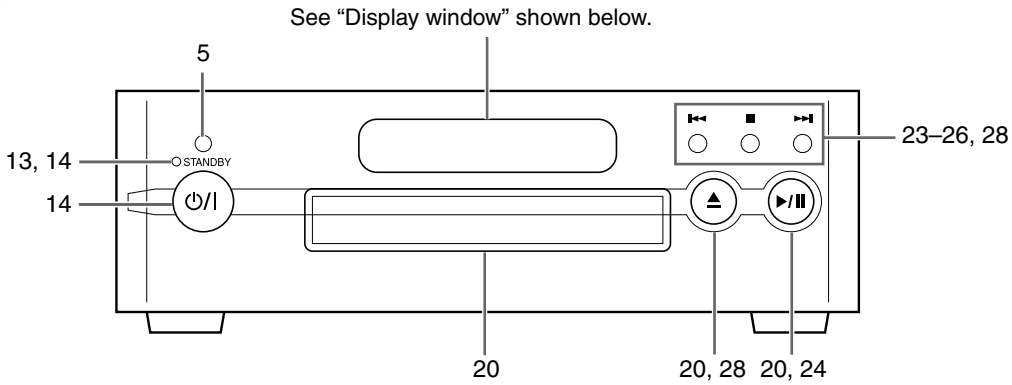
- "DVD VR" means a DVD recorded in DVD Video Recording (DVD VR) format.
- "VCD" stands for "Video Compact Disc".
- "SVCD" stands for "Super Video Compact Disc".
- An "ASF" disc means a disc recorded in "Advanced Systems Format".

Part description

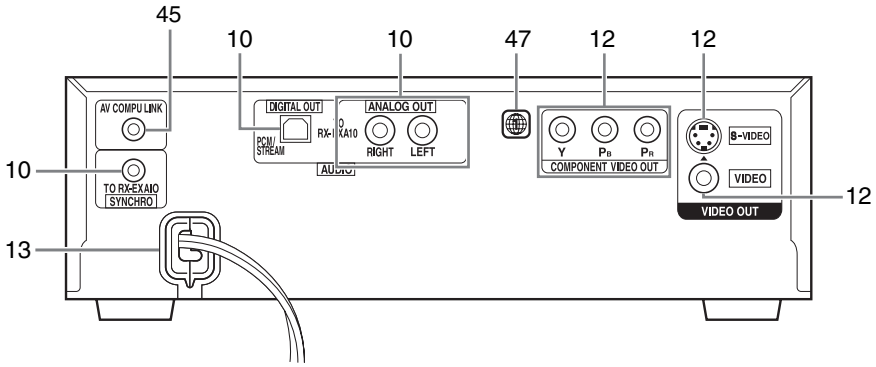
The numbers refer to the pages in which the parts are explained.

DVD player

Front panel

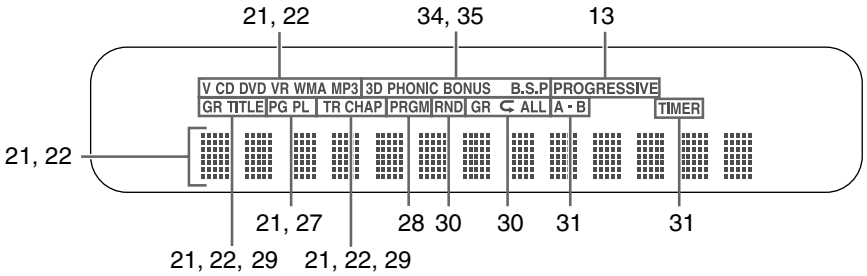


Rear panel



Display window

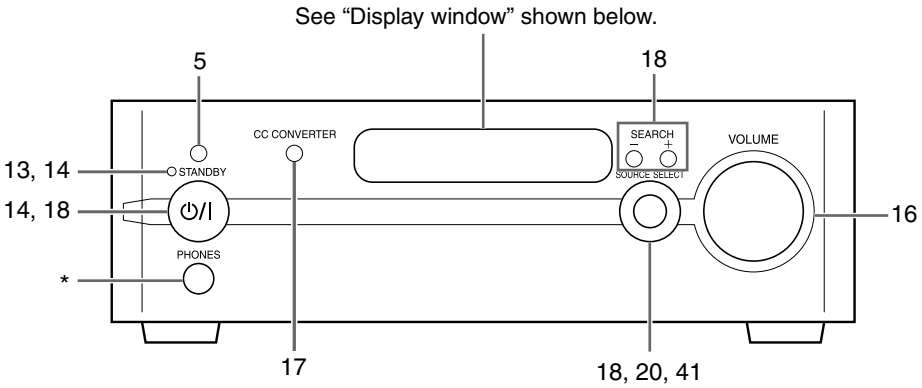
The receiver and the DVD player use the same design for their display windows.



The numbers refer to the pages in which the parts are explained.

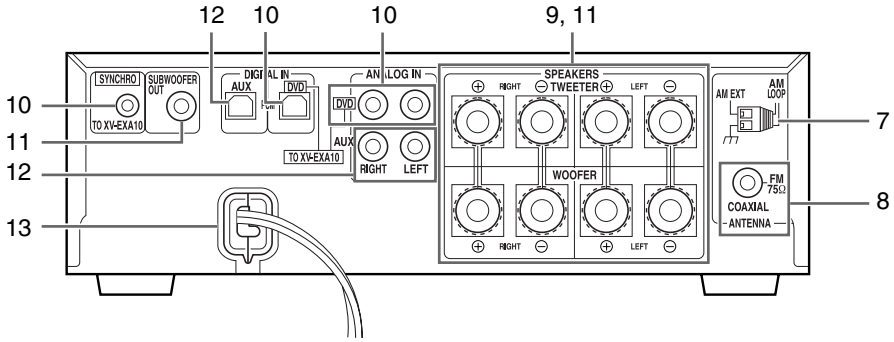
Receiver

Front panel



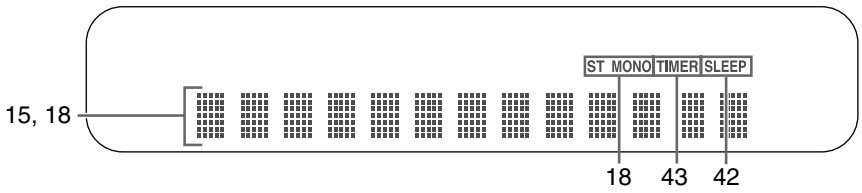
* This terminal is for connecting a pair of headphones equipped with a stereo plug (not supplied). When the headphones are connected, the speakers do not produce any sound.

Rear panel



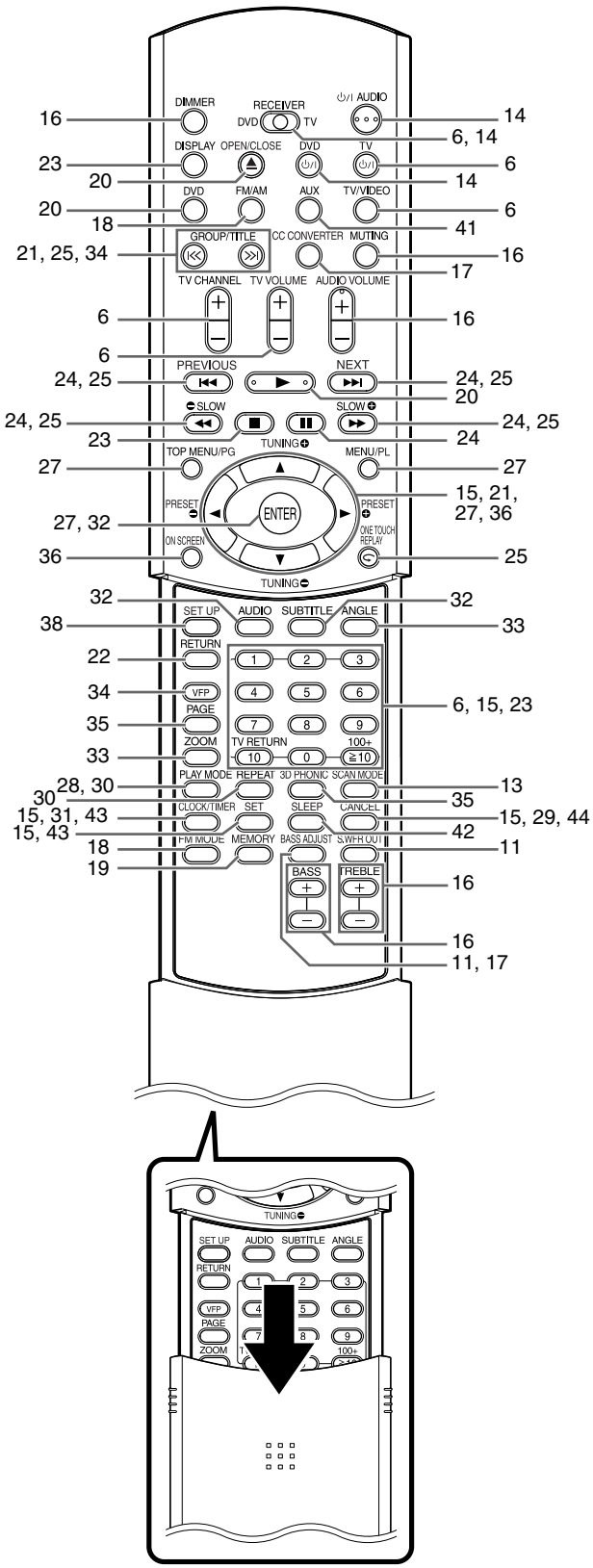
Display window

The receiver and the DVD player use the same design for their display windows.

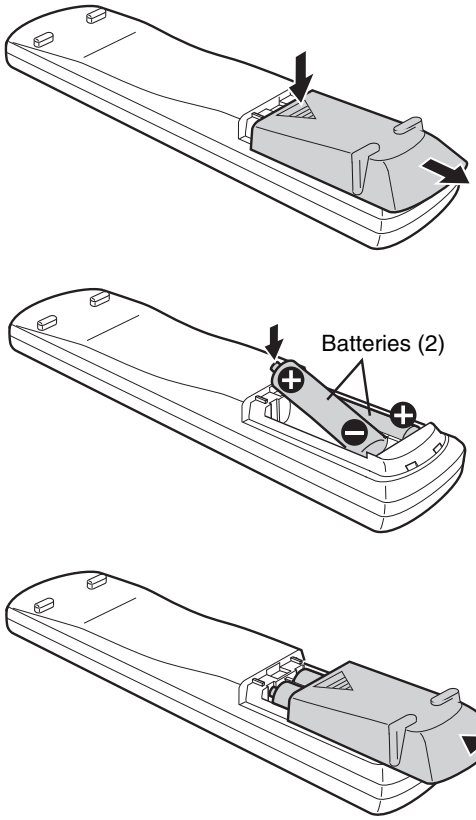


Using the remote control

The numbers refer to the pages in which the parts are explained.



Inserting batteries into the remote control



If the effective distance between the remote control and remote control sensor on the receiver or the DVD player decreases, replace the batteries. Use two R6P (SUM-3)/AA(15F) type dry-cell batteries.

CAUTION

- **Do not use a used battery and a new battery together.**
- **Do not use different types of batteries at the same time.**
- **Take out the batteries if the remote control is not to be used for a long time. Otherwise it may cause a leakage.**

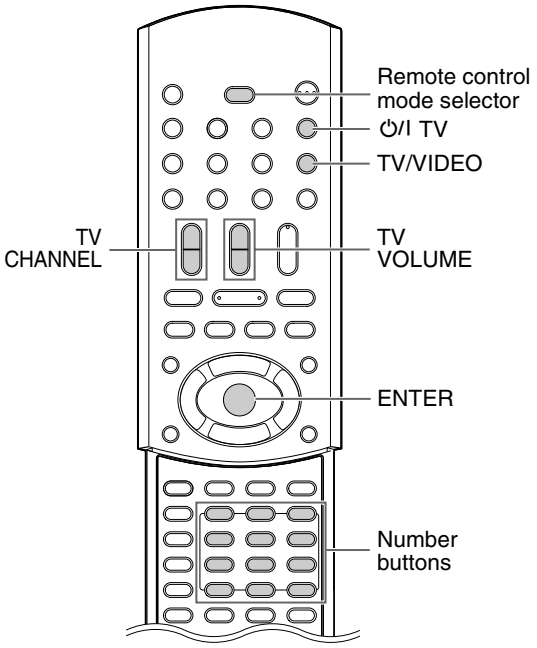
Remote control operation

When operating the remote control, point it at the front panel of the receiver or the DVD player. If the remote control is operated from a direction that is extremely oblique or when there is an obstacle in the way, signals may not be transmitted.

If the remote control sensor is exposed to a strong light such as direct sunlight, correct operation may not be carried out.

Operating the TV using the remote control

You can operate your TV using the remote control of this system.



Setting the manufacturer code

1 Slide the remote control mode selector to TV.

2 Hold down ⏻/I TV.

- Hold down ⏻/I **TV** until you finish step 4.

3 Press ENTER and release.

4 Press number buttons (1-9, 0).

- Refer to “Using the number buttons” (☞ page 15).

Examples:

For a Hitachi TV: Press 1, then 0.
For a Toshiba TV: Press 0, then 8.

When the manufacturer of your TV has two or more codes, select the manufacturer codes in turn and find the one that operates the TV and the remote control properly.

Manufacturer	Code	Manufacturer	Code
JVC	01	Samsung	12
Hitachi	10	Sanyo	13
Magnavox	02	Sharp	06
Mitsubishi	03	Sony	07
Panasonic	04, 11	Toshiba	08
Philips	14	Zenith	09
RCA	05		

NOTE

- *A manufacturer code is subject to change without notice. You may not be able to operate the TV produced by the manufacturer.*

5 Release ⏻/I TV.

Using the remote control for the TV operation

Operate the remote control by pointing it at the TV.

TV ⏻/I	Turns on/off the TV.	
TV CHANNEL + −	Changes the channels.	
TV VOLUME + −	Adjusts the volume.	
1 ~ 9 / 0 / 100+	RECEIVER DVD TV *1	Selects the channels.
TV RETURN	RECEIVER DVD TV *1	Switches the previously selected channel and the current channel.
TV/VIDEO	Switches the TV and video input.	

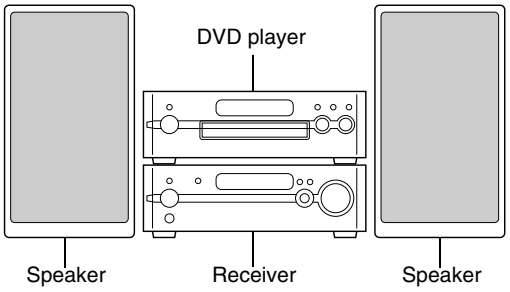
*1 Make sure to slide the remote control mode selector to **TV** in advance.

NOTE

- *After replacing the batteries of the remote control, set the manufacturer code again.*
- *When the remote control mode selector is slid to* **TV***, some buttons may not work.*

Do not turn on the power until you complete the connection.

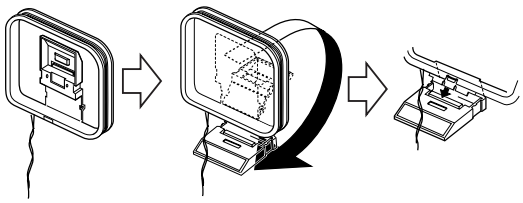
Standard setup



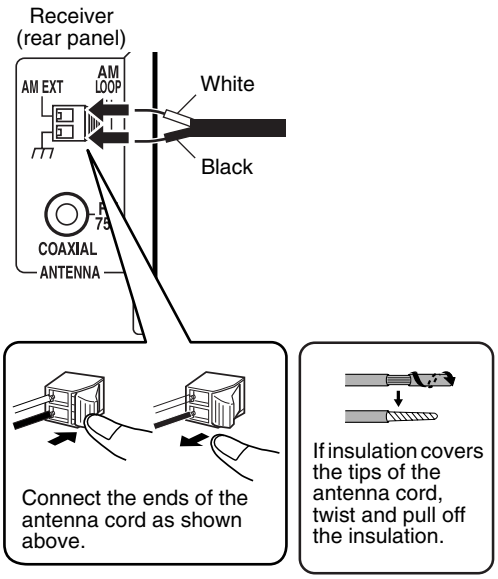
Connecting the antennas

Connecting the AM loop antenna (supplied)

1 Set up the AM loop antenna.



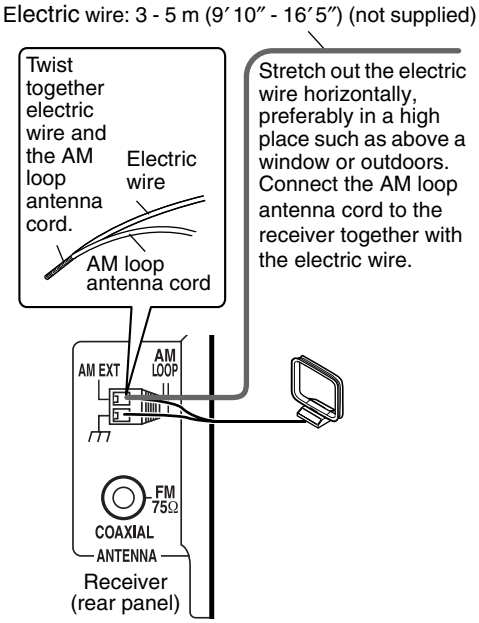
2 Connect the antenna cord.



3 Turn the AM loop antenna to find the best position for radio reception.
Place the AM loop antenna as far from the receiver as possible.

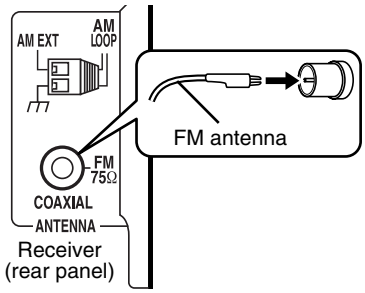
- Do not place the AM loop antenna on a metallic table or close to a TV, computer, or other electric appliances. Doing so may affect radio reception.

■ When radio reception with the supplied AM loop antenna is poor

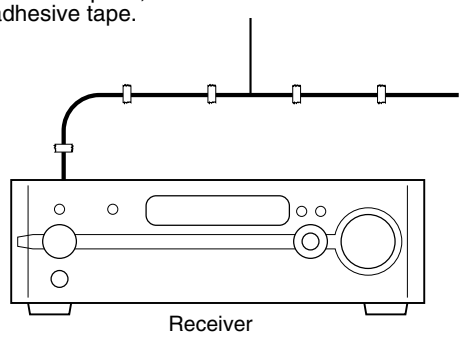


When positioning the antennas, find the best position for reception while listening to an actual radio program (refer to “Listening to radio broadcasts” (☞ page 18)).

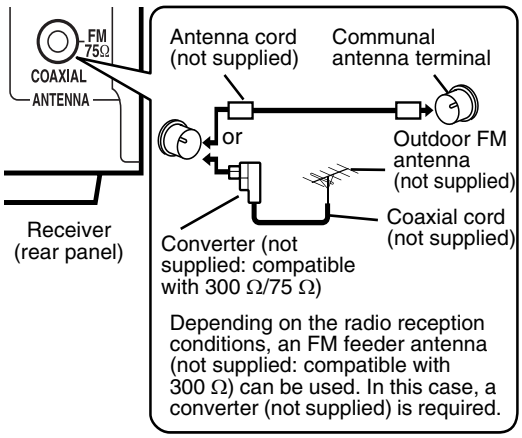
Connecting the FM antenna (supplied)



Stretch out the FM antenna to the best position for radio reception, and then fix the FM antenna with adhesive tape.



■ When radio reception with the supplied FM antenna is poor, or when using a communal antenna



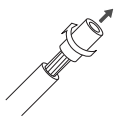
When using an antenna other than those supplied with this system, refer to the operation manuals for the antenna and converter for details of connection.

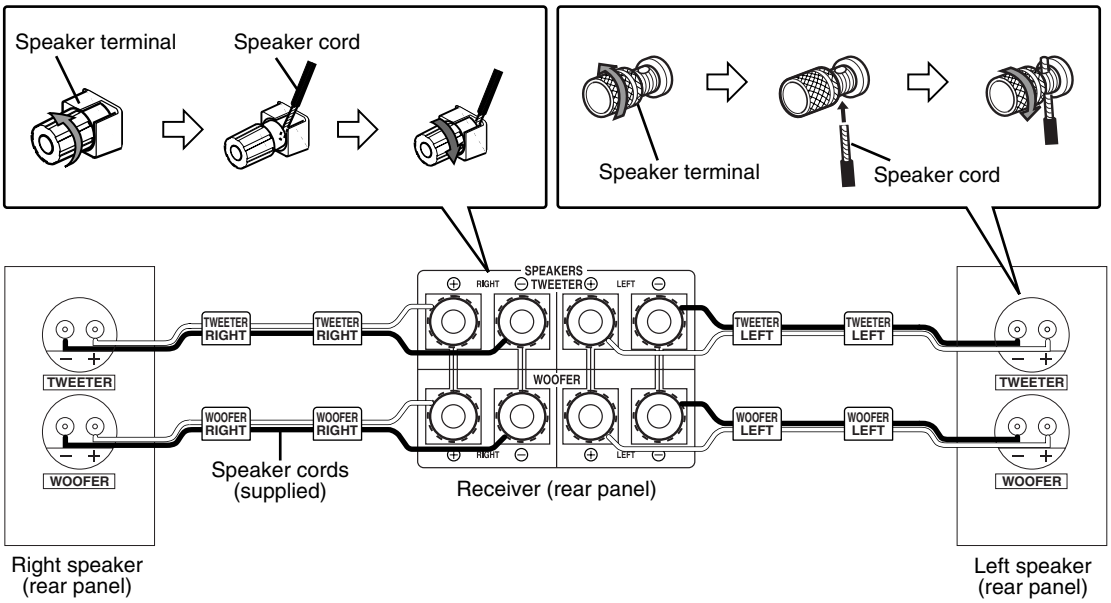
When positioning the antennas, find the best position for reception while listening to an actual radio program (refer to “Listening to radio broadcasts” (☞ page 18)).

Connecting the speakers

There is no difference between the left and right speakers.

Before connecting the speaker cords, twist and pull off the insulation.





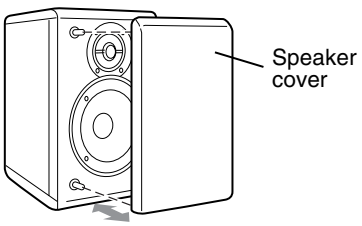
- An incorrect connection may damage the speakers.
- The supplied speakers are dedicated to the supplied receiver as parts of the EX-A10 system. Do not connect the supplied speakers to equipment other than the supplied receiver. Doing so may damage the speakers.

CAUTION

- **Do not short-circuit the ⊕ and ⊖ speaker terminals. Doing so may damage the receiver.**
- **Do not connect other speakers together with the supplied speakers. The change in impedance may damage the receiver and the speakers.**
- **Improper speaker cord connection spoils the stereo effect and sound quality.**
- **The supplied speakers are magnetically shielded, but color irregularity may occur on the TV depending on some conditions. To prevent color irregularity, set up the speakers following the instructions below.**
  1. **Turn off the main power of the TV before setting up the speakers.**
  2. **Place the speakers enough distance from the TV so that they do not cause color irregularity on the TV.**
  3. **Wait for about 30 minutes before turning on the main power of the TV again.**

The speakers employ natural wood for the diaphragm and the cabinet in order to reproduce the original sound faithfully. The appearance will therefore be different for each system.

You can detach the speaker cover.

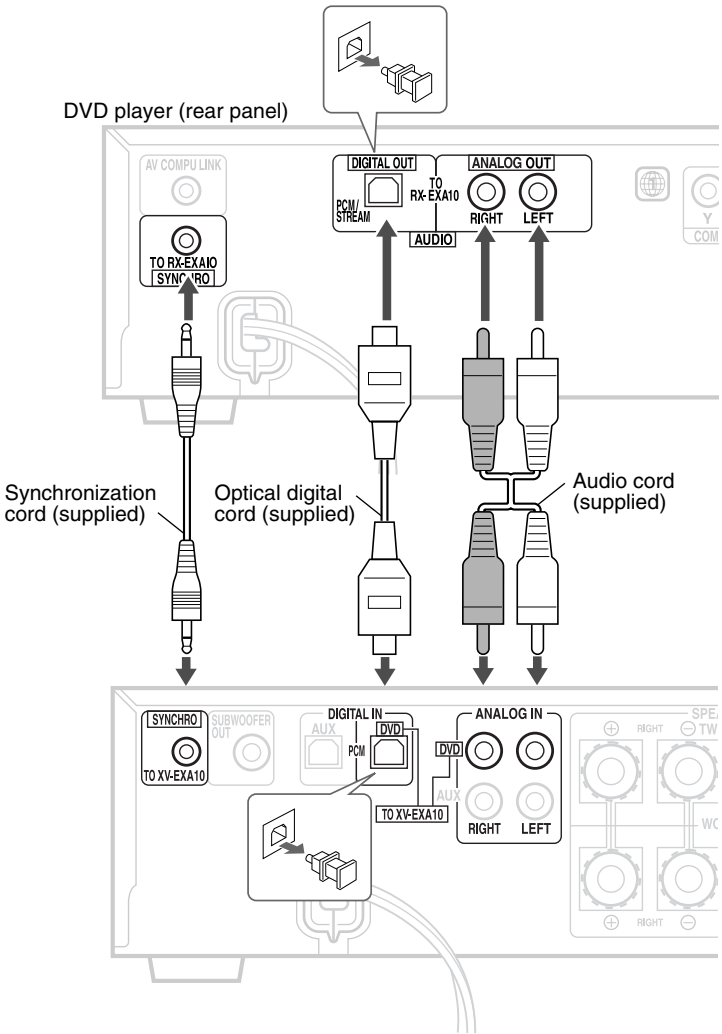


NOTE

- *To allow the receiver and the DVD player to emit generated heat, leave a space of at least 1 cm (7/16″) between the receiver or the DVD player and the speakers or other objects.*

Connecting the receiver and the DVD player

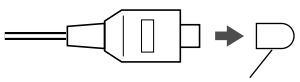
Make sure to connect the three supplied cords.



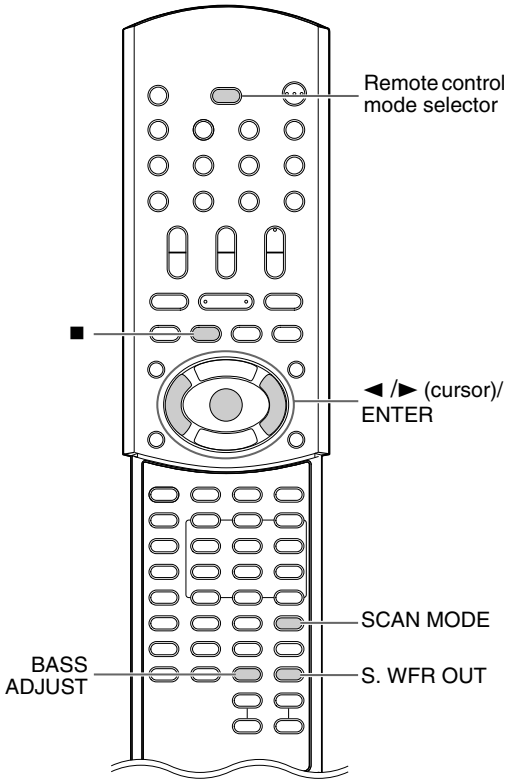
CAUTION

- **Do not fold the optical digital cord as this may damage the inner wire.**

If protection caps cover the tips of the optical digital cord, pull off the protection caps before connecting.



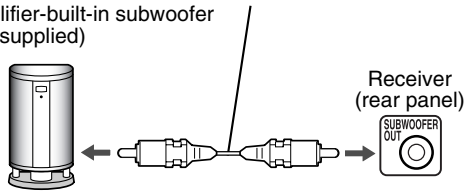
Connecting other equipment



Connecting the subwoofer

When you connect this system with an amplifier-built-in subwoofer (not supplied), you can enjoy a more dynamic bass sound. Refer to the manual of the subwoofer for details.

Audio cord (not supplied)
(If an audio cord comes with the amplifier-built-in subwoofer, you can use the audio cord.)



To produce sound from the subwoofer, press **S.WFR OUT** on the remote control to display "S. WOOFER ON" (Subwoofer on) in the display window on the receiver. Each time you press **S.WFR OUT**, the display toggles between "S. WOOFER ON" and "S. WOOFER OFF".

NOTE

- *When "S. WOOFER ON" is selected, bass sound from the left and right speakers will be automatically turned down and the bass sound will be emitted mainly from the subwoofer.*

Connecting other speakers

To connect speakers other than the ones supplied, follow the operations shown below.

1 Slide the remote control mode selector to RECEIVER.

2 Connect the speakers to the SPEAKERS WOOFER LEFT and RIGHT terminals on the receiver.

3 Hold down BASS ADJUST for 2 or more seconds.

- "Single Amp" is displayed in the display window on the receiver, and no audio signal is sent to the SPEAKERS TWEETER LEFT and RIGHT terminals.

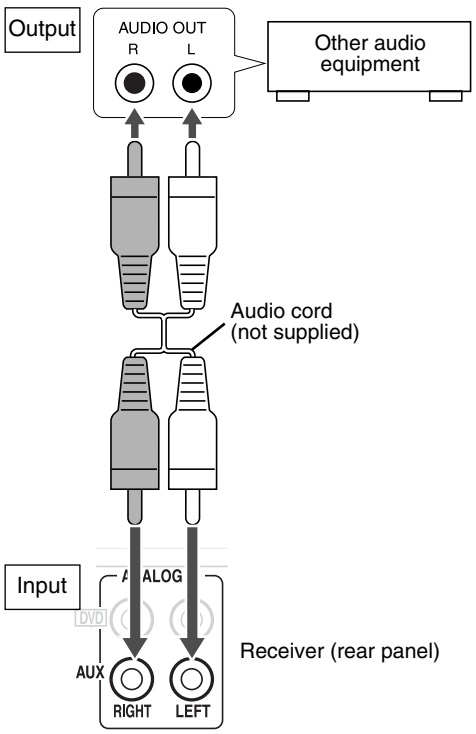
Display on the receiver

NOTE

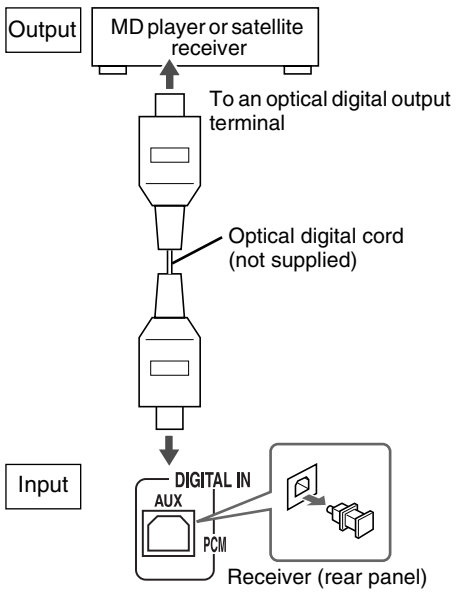
- *The impedance of speakers connected to this system must be within the range 6 Ω to 16 Ω.*
- *When connecting the supplied speakers to the receiver, hold down* **BASS ADJUST** *on the remote control for 2 or more seconds once again to select "Bi-Amp" in the display window on the receiver.*

Connecting a TV

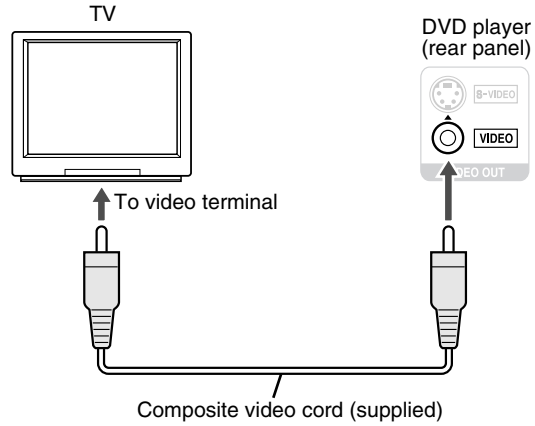
Connecting other audio equipment



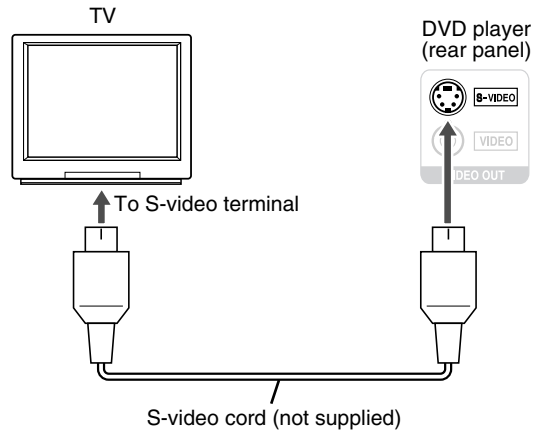
Connecting digital equipment with an optical output terminal



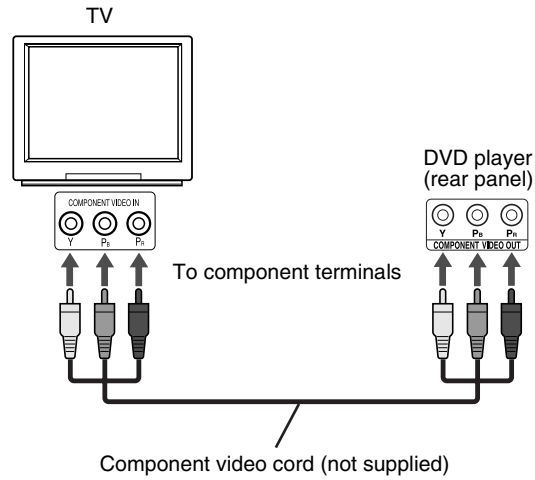
Connecting a TV with the VIDEO terminal



Connecting a TV with the S-VIDEO terminal



Connecting a TV with the COMPONENT VIDEO OUT terminals



After connecting the DVD player to the TV, select the video signal type correctly according to the TV.

1 Slide the remote control mode selector to DVD.

2 Make sure that playback stops. (If a disc is being played back, press ■ to stop playback.)

3 Press SCAN MODE.

- The current video signal type will flash.

4 Press ◄, ► (cursor) to select the video signal type suitable for the TV.

- You can select “INTERLACE” or “PROGRESSIVE”. You can obtain better picture quality in the “PROGRESSIVE” mode than in the “INTERLACE” mode. When you select “INTERLACE”, the image is displayed alternating between half of the scanned lines in the “PROGRESSIVE” mode and the other half of the scanned lines. The way of displaying the image is a conventional video signal type.
- Select “INTERLACE” when a TV only compatible with interlaced video signals is connected to the DVD player.
- Select “PROGRESSIVE” when a TV equipped with a component terminal and compatible with progressive video signals is connected to the DVD player. When you select “PROGRESSIVE”, the image is displayed with all scanned lines at the same time. The image has a higher resolution than that in the “INTERLACE” mode.

5 Press ENTER.

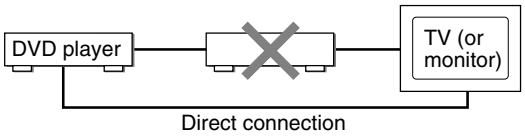
- The selected video signal type is displayed for a short time.

NOTE

- *Although the picture may be distorted when you press* **ENTER***, this is not a malfunction of the system.*
- *There are some progressive TVs and high-definition TVs that are not fully compatible with this system, resulting in an unnatural picture when playing back a DVD VIDEO with progressive scanning. In this case, change the scan mode to “INTERLACE”.*
- *To check the compatibility of your TV, contact your local JVC customer service center.*
- *All JVC-manufactured progressive TVs and high-definition TVs are fully compatible with this system.*
- *Even if the power cord of the DVD player is disconnected from the AC outlet or the power is interrupted, the video signal type setting is stored.*

CAUTION

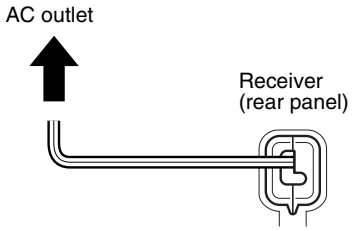
- **Do not connect an S-video cord and a component video cord at the same time. Otherwise pictures may not be played back properly.**
- **Connect the DVD player directly to a TV (or a monitor) without routing through a video cassette recorder (VCR). Otherwise picture distortion may occur during playback.**



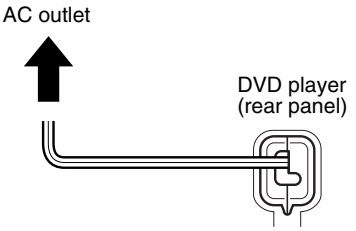
- **Connecting the DVD player to a VCR-built-in-TV may also cause picture distortion during playback.**

Connecting the power cords

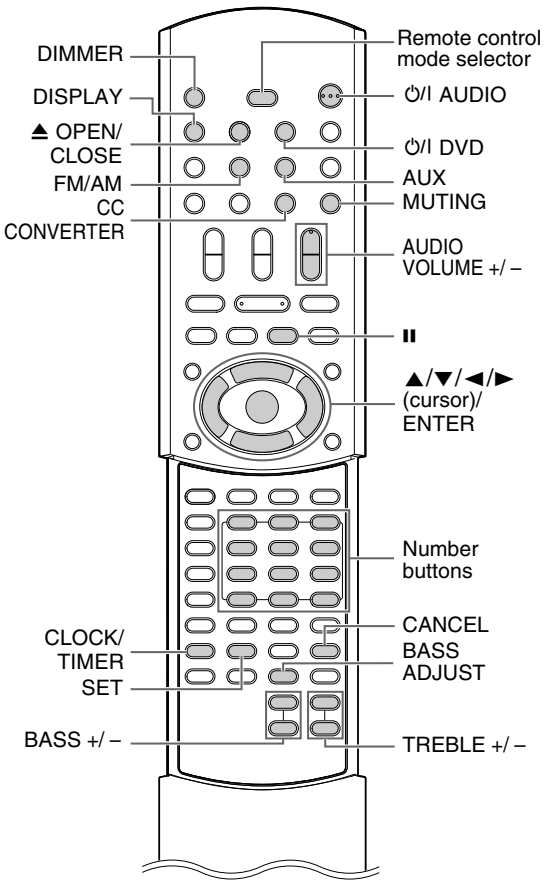
Receiver



DVD player



- Connect the power cords after you complete the other connections.
- The STANDBY lamps on the front panels of the receiver and the DVD player will light up.



Turning on/off the system

Receiver

1 **Slide the remote control mode selector to RECEIVER.**

2 **Press ⏻/I AUDIO (or ⏻/I on the receiver).**

- The power of the receiver will turn on and the STANDBY lamp on the receiver will turn off.
- Press ⏻/I **AUDIO** again to turn off the power of the receiver.
- With the power off, pressing any of the following buttons also turns on the receiver.
  - **DVD**, **FM/AM** or **AUX** on the remote control
  - ►/II on the DVD player

  The function assigned to the button starts working at the same time.

DVD player

1 **Slide the remote control mode selector to DVD.**

2 **Press ⏻/I DVD (or ⏻/I on the DVD player).**

- The power of the DVD player will turn on and the STANDBY lamp on the DVD player will turn off.
- Press ⏻/I **DVD** again to turn off the power of the DVD player.
- With the power off, pressing any of the following buttons also turns on the DVD player.
  - **DVD** or ⏏ **OPEN/CLOSE** on the remote control
  - ⏏ or ►/II on the DVD player

  The function assigned to the button starts working at the same time.
  (When you press **DVD** on the remote control or ►/II on the DVD player, if a disc has been loaded, playback starts automatically.)

Setting the clock

You can set the clock when the receiver is turned either on or off.

Example:

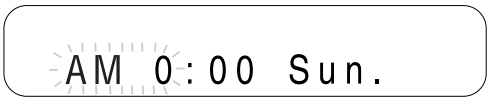
To set the clock to 10:30 a.m. on Wednesday

1 Slide the remote control mode selector to RECEIVER.

2 Press CLOCK/TIMER.

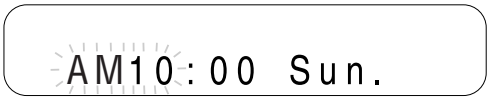
Example:

Display on the receiver (for U.S.A. or Canada models)

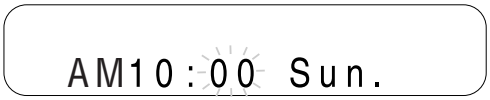


3 Press ◄ or ► (cursor) to select the hour.

- Hold down the button to incrementally increase the hour setting.
- You can also use the number buttons to specify the hour. Refer to "Using the number buttons" shown on the right.



4 Press SET.



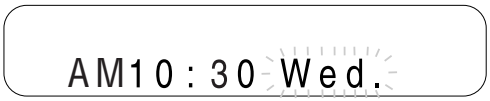
5 Press ◄ or ► (cursor) to select the minute.

- Hold down the button to incrementally increase the minute setting.
- You can also use the number buttons to specify the minute.

6 Press SET.

7 Press ◄ or ► (cursor) to select the day of the week.

- Hold down the button to change the setting for the day of the week.



- Abbreviations are used for the days of the week.
  Sun. → Sunday
  Mon.→ Monday
  Tue. → Tuesday
  Wed.→ Wednesday
  Thu. → Thursday
  Fri. → Friday
  Sat. → Saturday

8 Press SET.

- The clock starts from 0 seconds in the minute you set.

NOTE

- *While setting the clock, you can return to the previous step by pressing* **CANCEL**.
- *For U.S.A. or Canada models, the time display on the receiver is a 12-hour clock.*
- *For models sold at post exchanges, the time display on the receiver is a 24-hour clock.*
- *The clock will gain or lose about 1 minute per month.*
- *If the power cord of the receiver is disconnected from the AC outlet or the power is interrupted, the clock setting is stored for about 1 minute.*
- *You cannot set the clock when "DISPLAY OFF" is selected. (☞ page 16)*

Adjusting the clock

Press CLOCK/TIMER twice to display the clock, and then adjust the clock starting from step 3.

Displaying the clock when using the receiver

Press DISPLAY.

- Refer to "Changing the display in the display window". (☞ page 23)

Using the number buttons

Examples:

5: (5)

15: (≧10) → (1) → (5)

150: (≧10) → (≧10) → (1) → (5) → (0)

Dimmer

Changing the brightness of the display windows on the receiver and the DVD player

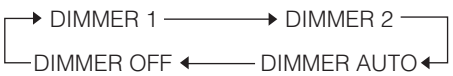
You can set the brightness of the display windows on the receiver and the DVD player respectively.

■ **When the receiver/DVD player is turned on**

1 **Slide the remote control mode selector to RECEIVER or DVD.**

2 **Press DIMMER repeatedly.**

- Each time you press **DIMMER**, the setting changes on the receiver/DVD player.



- For a disc containing video, when you select “DIMMER AUTO”, “DIMMER 2” is automatically selected during video playback and is canceled when the playback stops.
- For a disc containing no video, when you select “DIMMER AUTO”, “DIMMER OFF” is automatically selected during playback and is canceled when the playback stops.

Turning off the display on the receiver

You can also turn off the display on the receiver when the receiver is turned off.

■ **When the receiver is turned off**

1 **Slide the remote control mode selector to RECEIVER.**

2 **Press DIMMER repeatedly.**

- Each time you press **DIMMER**, the setting changes on the receiver.
  DISPLAY ON ⟷ DISPLAY OFF

Adjusting the volume

1 **Slide the remote control mode selector to RECEIVER.**

2 **Press AUDIO VOLUME +/–.**

- The volume can also be adjusted by turning the VOLUME control on the receiver.

Turning off the sound temporarily (MUTING)

1 **Slide the remote control mode selector to RECEIVER.**

2 **Press MUTING.**

- No sound will come out from the speakers, headphones and the subwoofer.
- Press **MUTING** again to restore the sound. When the power is turned off once and turned on again, the sound will also be restored.

Adjusting the sound quality

1 **Slide the remote control mode selector to RECEIVER.**

2 **Bass: Press BASS +/–.**
Treble: Press TREBLE +/–.

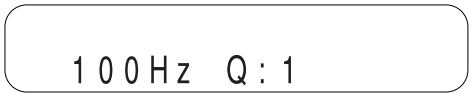
For the locations of the remote control buttons, refer to page 14.

Adjusting the bass sound

1 **Slide the remote control mode selector to RECEIVER.**

2 **Press BASS ADJUST.**

Display on the receiver



3 **While the selectable values are flashing, press ◄ or ► (cursor) to select the value of the bass frequency.**

- You can select “100 Hz”, “120 Hz” or “140 Hz”.
- The initial setting is “100 Hz”. Select the value for your desired bass sound.

4 **While the selectable values are flashing, press ▲ or ▼ (cursor) to select the value of “Q” in the display window.**

- You can select “0.75”, “1” or “1.25”.
- The initial setting is “1”. Select the value for your desired bass sound.

5 **Press ENTER.**

- The selected values are displayed for a short time.

NOTE

- *The adjustment of the bass sound does not change the treble and bass sound level adjustments.*

Enhancing the playback sound (CC CONVERTER)

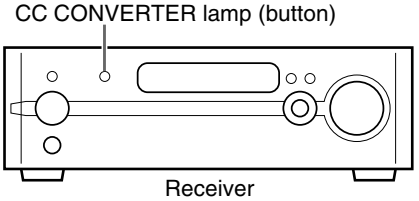
The CC CONVERTER function is designed to provide natural sound by improving the playback sound from low-bit-rate digital sources.

The function compensates for sound waves dissipated during digital recording compression to approximate the original analog sound. Sound is reproduced with more bits (24 bit) and a wider range of frequency (128 kHz, 176.4 kHz or 192 kHz).

1 **Slide the remote control mode selector to RECEIVER.**

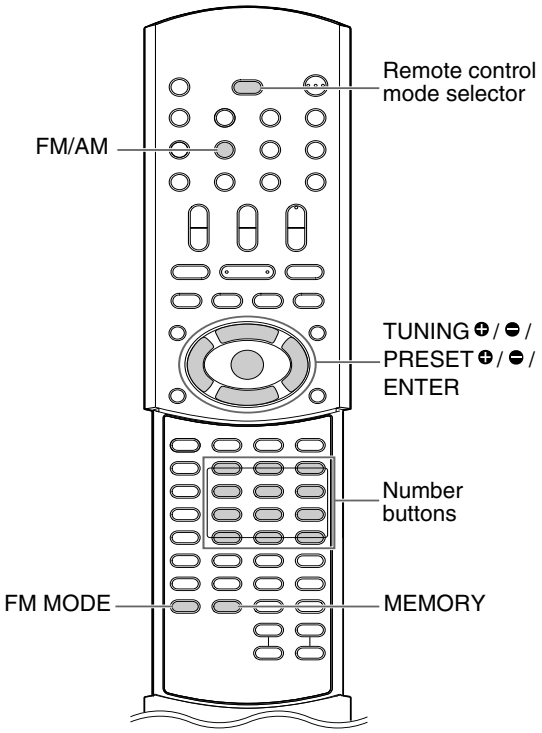
2 **Press CC CONVERTER.**

- When the CC CONVERTER function is activated, the CC CONVERTER lamp (button) on the front panel of the receiver lights up.
- Each time you press **CC CONVERTER**, the display changes as follows.
  - “CC CNVRTR 1”:
    Plays back a digital source with non-compressed sound signals (linear PCM).
  - “CC CNVRTR 2”:
    Plays back a digital source with compressed sound signals (Dolby digital, DTS, MP3 or WMA).
  - “CC CNVRTR OFF”:
    Cancels the CC CONVERTER function.



NOTE

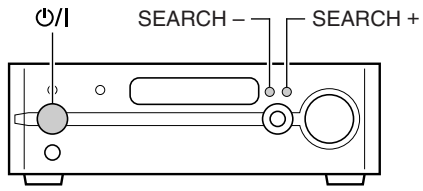
- *The initial setting is “CC CNVRTR 1”.*
- *The CC CONVERTER function does not work when analog sound is selected as the sound source or when 3D PHONIC is activated (☞ page 35). In such cases, pressing* **CC CONVERTER** *only displays “ANALOG SOURCE”.*
- *The original range of frequency is automatically detected and extended to a specific range. When the original range is 32 kHz, 44.1 kHz or 48 kHz, the range is extended to 128 kHz, 176.4 kHz or 192 kHz respectively.*



Setting the AM tuner spacing (only for models sold at post exchanges)

Some countries space AM stations 9 kHz apart, and other countries use 10 kHz spacing.
If you purchased the system at a post exchange, select either spacing according to the country where you will use the system. This function is not designed for U.S.A. and Canada models.

On the receiver ONLY:



Receiver

■ When the receiver is turned off

To select 10 kHz spacing, while holding down **SEARCH +** on the receiver, press ⏻/I on the receiver to turn on the power. "AM 10 kHz STEP" appears in the display window.

To select 9 kHz spacing, while holding down **SEARCH –** on the receiver, press ⏻/I on the receiver to turn on the power. "AM 9 kHz STEP" appears in the display window.

NOTE

- *If the spacing is switched, the preset radio station memory will be erased.*

Selecting a radio station

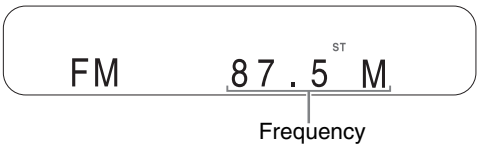
This receiver can receive FM and AM radio broadcasts.

1 Slide the remote control mode selector to RECEIVER.

2 Press FM/AM to select "FM" or "AM".

- Pressing **FM/AM** selects a radio broadcast as the sound source.
- You can also use **SOURCE SELECT** on the receiver to select a radio broadcast as the sound source.
- Each time you press **FM/AM**, the band will toggle between "FM" and "AM".

Example:
Display on the receiver for U.S.A. or Canada models



Frequency

3 Press TUNING ⊕ or TUNING ⊖ repeatedly to select a radio station (frequency).

- When the receiver has received an FM stereo broadcast, "ST" (stereo) indicator lights up.
- You can also select a radio station using the automatic tuning.

Automatic tuning:

Hold down **TUNING ⊕** or **TUNING ⊖** until the frequency starts changing, and then release the button.
When the receiver has received a broadcast, the frequency automatically stops changing.
To quit the function while searching for a broadcast, press **TUNING ⊕** or **TUNING ⊖**.

NOTE

- *Pressing* **SEARCH –** *or* **SEARCH +** *on the receiver also enables you to select the radio station.*
- *If an FM stereo broadcast is difficult to hear because of noise, you may be able to hear the broadcast more easily by pressing* **FM MODE** *to switch the sound to monaural reception. In this case, "MONO" lights up. To return the sound to stereo reception, press* **FM MODE** *again.*

For the locations of the remote control buttons, refer to page 18.

Tuning in to a preset radio station

Presetting radio stations in the receiver allows you to easily tune in to a radio station.

Presetting radio stations

You can store up to 30 FM radio stations and up to 15 AM radio stations.

1 Select a radio station you want to store (☞ "Selecting a radio station" on page 18).

2 Press MEMORY.

- The preset number flashes in the display window on the receiver for about 5 seconds.

3 While the preset number is flashing, press PRESET ⊕ or PRESET ⊖ to select the preset number you want to use.

- You can also select the preset number by using the number buttons. (Refer to "Using the number buttons". (☞ page 15))

4 Press MEMORY or ENTER while the selected number is flashing.

- "STORED" will appear and the selected radio station will be stored.

NOTE

- *When you store a radio station to a preset number to which another radio station has previously been stored, the newly set radio station replaces the previously stored radio station.*

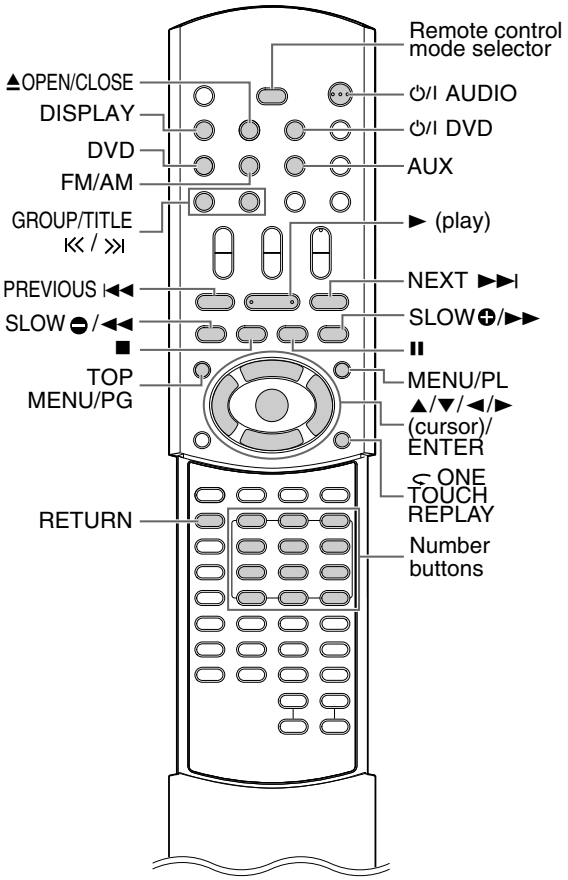
Tuning in to a preset radio station

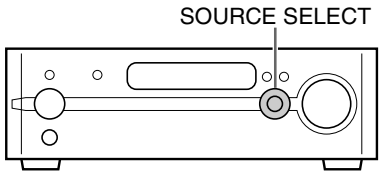
1 Slide the remote control mode selector to RECEIVER.

2 Press FM/AM repeatedly to select "FM" or "AM".

3 Press the number buttons to select the preset number of the radio station to which you want to tune in.

- Refer to "Using the number buttons" (☞ page 15).





Receiver

Playing back a DVD/CD

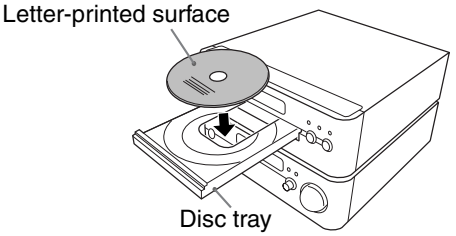
DVD VIDEO DVD AUDIO DVD VR VCD SVCD CD

1 Slide the remote control mode selector to DVD.

2 Press ⏏ OPEN/CLOSE.

- The disc tray ejects.

3 Place a disc.



- To listen to an 8 cm ($3\frac{3}{16}$″) disc, place it on the inner hollow of the disc tray.

4 Press ► (play) or DVD.

NOTE

- *You can also use* **SOURCE SELECT** *on the receiver to select a loaded disc as the sound source.*
- *A menu screen may be displayed after starting playback of a DVD. In this case, select a desired item to playback by using the following buttons on the remote control.*
  - *Select a desired item using ▲/▼/◄/► (cursor) and press* **ENTER**.
  - *You can also select a desired item using the number buttons. Refer to "Using the number buttons" (☞ page 15).*
- *When a DVD AUDIO is played back, signals are converted into analog signals. Beginning playback of a DVD AUDIO displays "DVD-ANALOG" for a short time. When you take the disc out of the disc tray, the display returns to "DVD-DIGITAL" automatically.*
- *When using a DVD player other than the supplied XV-EXA10, select "DVD-DIGITAL" playback or "DVD-ANALOG" playback according to your usage. Each time you hold down* **DVD**, *the playback changes among "DVD-DIGITAL", "DVD-ANALOG" and "DVD-AUTO". Return to the initial setting ("DVD-AUTO") when using the XV-EXA10.*
- *Depending on the disc, the actual operation may be different from the description.*
- *When you select a source other than a DVD during playback, the loaded disc stops automatically, and "DVD OFF" is displayed in the display window on the DVD player.*

MP3 WMA JPEG ASF DivX MPEG1 MPEG2

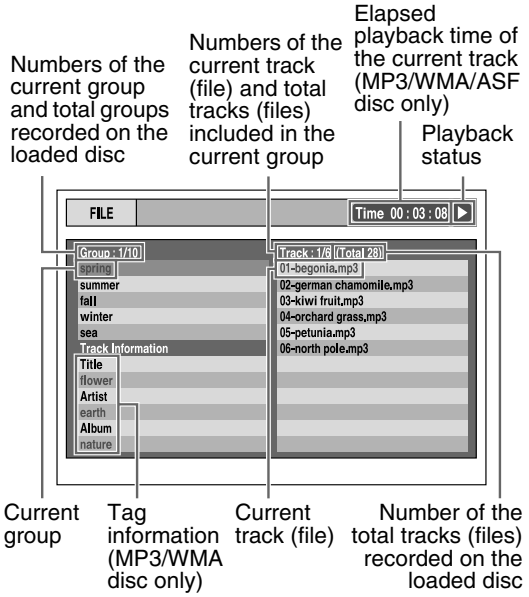
This part explains the operation with displays of an MP3 disc as examples.
For a JPEG disc, read “track” as “file”.

NOTE

- *When files of different types are recorded on a disc, select the file type to be played back. (☞ “FILE TYPE” on page 39)*

1 Slide the remote control mode selector to DVD.

2 Load a disc.



3 Press ▲/▼ (cursor) to select a group.

4 Press ► (cursor) to move to the track list.

- Press ◄ (cursor) to go back to the group list.

5 Press ▲/▼ (cursor) to select a track.

6 Press ► (play) or ENTER.

NOTE

- *You can also use* **GROUP/TITLE** ⏮ *or* ⏭ *in step 3 and* **PREVIOUS** ⏮ *or* **NEXT** ⏭ *in step 5. In this case, you can skip step 4.*
- *The number buttons can also be used in step 5. In this case, you can skip steps 4 and 6. (Refer to “Using the number buttons”. (☞ page 15))*

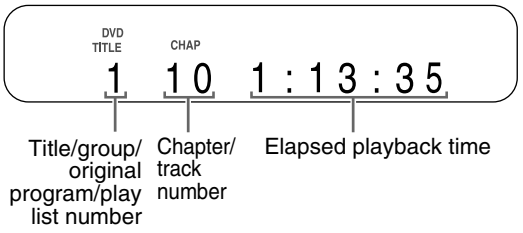
Slide-show playback JPEG

- In step 6, for a JPEG disc, when ► (play) is pressed, files will be continuously played back from the selected file (slide-show playback), and when **ENTER** is pressed, only a selected file will be played back.
- Display time for a file in slide-show playback is about 3 seconds.

Display window on the DVD player

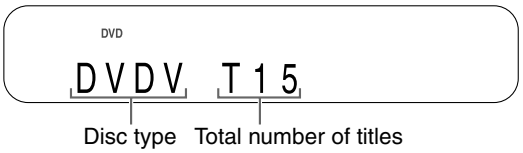
■DVD VIDEO/DVD AUDIO/DVD VR

When a disc is played back



- When a DVD AUDIO is played back, “GR” and “TR” are displayed instead of “TITLE” and “CHAP”.
- When a DVD VR is played back, “VR” is displayed and “PG” (original program) or “PL” (play list) is displayed instead of “TITLE”.
- If “BONUS” or “B.S.P.” is displayed during DVD AUDIO playback, refer to pages 34 and 35.

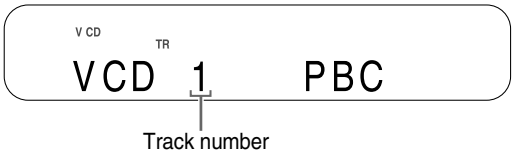
When a disc is stopped



- When a DVD AUDIO is loaded; “DVDA” is displayed instead of “DVDV”, and the total numbers of groups and the tracks are displayed instead of the total numbers of the titles.
- When a DVD VR is loaded; “VR” is displayed instead of “DVDV”, the total number of original programs or the play lists is displayed instead of the total number of titles, and “DVD VR” is displayed instead of “DVD”.

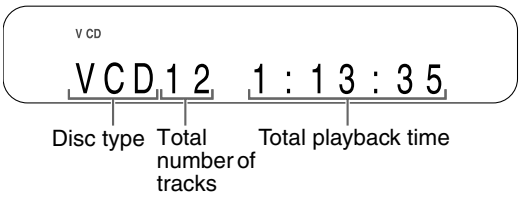
■VCD/SVCD

When a disc is played back



- PBC (Play Back Control) is a signal recorded in a VCD (version 2.0) for controlling playback. You can enjoy interactive software or software with a search function using a menu screen recorded in a PBC compatible VCD. To play back a disc without the PBC function, follow the instructions below.
  - Specify the track number using the number buttons when the disc is stopped. Refer to "Using the number buttons" (☞ page 15).
  - Specify the track number using **PREVIOUS** ⏮ or **NEXT** ⏭ when the disc is stopped, and then press ► (play).
- Press **RETURN** to go back to the upper layer during PBC playback of a VCD or SVCD.

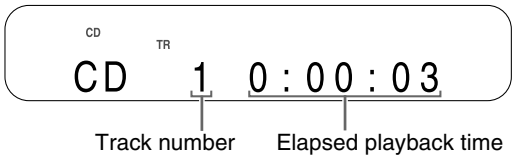
When a disc is stopped



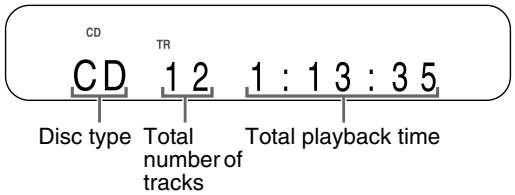
- When the PBC function is activated, the display below appears after the display above is displayed for a short time.

■CD

When a disc is played back

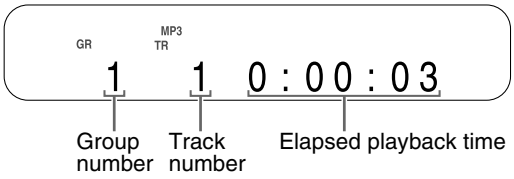


When a disc is stopped



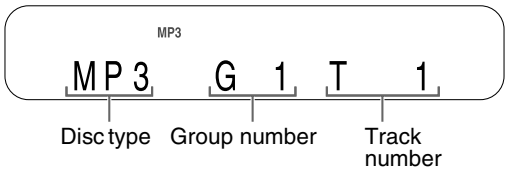
■MP3/WMA/ASF/DivX/MPEG1/MPEG2 disc

When a disc is played back



- When a WMA disc is played back, "WMA" is displayed instead of "MP3".
- When an ASF/DivX/MPEG1/MPEG2 disc is played back, no disc type indicator is displayed.

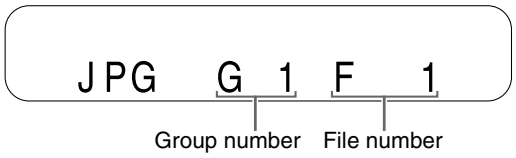
When a disc is stopped



- When a WMA disc is loaded, "WMA" is displayed instead of "MP3" in the upper indicator and the lower display.
- When an ASF disc is loaded; "MP3" disappears in the upper indicator, and "ASF" is displayed instead of "MP3" in the lower display.
- When a DivX disc is loaded; "MP3" disappears in the upper indicator, and "DivX" is displayed instead of "MP3" in the lower display.

■JPEG disc

When a disc is played back or stopped



Changing the display in the display window

Receiver

1 **Slide the remote control mode selector to RECEIVER.**

2 **Press DISPLAY repeatedly.**

- Each time you press **DISPLAY**, the display toggles between the current source (DVD, FM, AM, AUX-DIGITAL or AUX) and the clock.

DVD player

DVD VIDEO DVD AUDIO DVD VR MP3 WMA ASF DivX MPEG1 MPEG2

1 **Slide the remote control mode selector to DVD.**

2 **Press DISPLAY repeatedly during playback.**

- Each time you press **DISPLAY**, the display changes.

■ DVD VIDEO

Normal display (as shown on page 21)
↕
Disc type/title number/chapter number

■ DVD AUDIO

Normal display (as shown on page 21)
↕
Disc type/group number/track number

■ DVD VR

Normal display (as shown on page 21)
↕
Disc type/original program (play list) number/ chapter number

■ MP3/WMA disc

Normal display (as shown on page 22)
↓
File type/group number/track number
↓
Text*

* When text, such as a file name, has been recorded in the loaded MP3/WMA disc, the text appears and scrolls in the display window on the DVD player.

■ ASF/DivX/MPEG1/MPEG2 disc

Normal display (as shown on page 22)
↕
File type/group number/track number

Selecting a chapter/track using the number buttons

DVD VIDEO DVD AUDIO DVD VR CD MP3 WMA JPEG ASF DivX MPEG1 MPEG2 VCD SVCD (PBC off)

■ **When a disc is played back**

1 **Slide the remote control mode selector to DVD.**

2 **Use the number buttons to select the chapter number or track number.**

- Refer to “Using the number buttons” (☞ page 15).

NOTE

- *You cannot use this function for some discs.*

Stopping playback

DVD VIDEO DVD AUDIO DVD VR VCD SVCD CD MP3 WMA JPEG ASF DivX MPEG1 MPEG2

■ **When a disc is played back**

1 **Slide the remote control mode selector to DVD.**

2 **Press ■.**

Pausing playback

DVD VIDEO DVD AUDIO DVD VR VCD SVCD CD MP3 WMA JPEG ASF DivX MPEG1 MPEG2

■ **When a disc is played back**

1 Slide the remote control mode selector to DVD.

2 Press ❚❚.

- To return to normal playback, press ► (play).

Advancing the picture frame by frame

DVD VIDEO DVD VR VCD SVCD ASF DivX MPEG1 MPEG2

DVD AUDIO
└ (only for moving image)

■ **When a disc is paused**

1 Slide the remote control mode selector to DVD.

2 Press ❚❚ repeatedly.

Fast reverse/fast forward search

DVD VIDEO DVD AUDIO DVD VR VCD SVCD CD MP3 WMA ASF DivX MPEG1 MPEG2

■ **When a disc is played back**

1 Slide the remote control mode selector to DVD.

There are two methods in step 2.

2 Press ◄◄ or ►►.

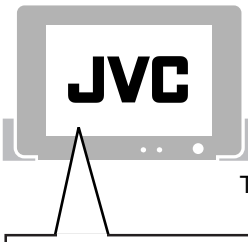
- Each time you press the button, the speed increases. To restore the normal speed, press ► (play).

Hold down PREVIOUS |◄◄ or NEXT ►►|.

- Fast reverse/fast forward search can be used only while the button is pressed.

NOTE

- *For some discs, sound is intermittent or no sound will be produced during fast reverse/fast forward search.*
- *The selectable speeds and displays vary by the disc type.*



Messages displayed on the TV when the power is turned on

The following messages appear depending on the status of the DVD player.

NOW READING	Appears when the DVD player is reading the disc information. Wait for a while.
REGION CODE ERROR!	Appears when the Region Code of the DVD does not match the code the DVD player supports. (☞ page 47)
NO DISC	Appears when no disc is loaded.
OPEN	Appears when the disc tray is opening.
CLOSE	Appears when the disc tray is closing.
CANNOT PLAY THIS DISC	Appears when an unplayable disc is attempted to be played back.

Playing back from a position 10 seconds before (One touch replay)

DVD VIDEO DVD VR

■ **When a disc is played back**

1 **Slide the remote control mode selector to DVD.**

2 **Press ↶ ONE TOUCH REPLAY.**

NOTE

- *This operation may not be used for some discs.*
- *You cannot go back to the previous title.*

Slow motion playback

DVD VIDEO DVD VR VCD SVCD DVD AUDIO (only for moving image)

■ **When a disc is paused**

1 **Slide the remote control mode selector to DVD.**

2 **Press SLOW ⊖ or SLOW ⊕.**

- Each time you press the button, the speed increases.
- Press ❚❚ to pause playback, and press ► (play) to return to normal playback.

NOTE

- *No sound will be produced.*
- *The picture motion in the reverse direction may not be smooth.*
- *For a VCD, SVCD or DVD VR, slow motion playback can be used in the forward direction only.*

Skipping to the beginning of a chapter/ track/file

DVD VIDEO DVD AUDIO DVD VR CD MP3 WMA JPEG ASF DivX MPEG1 MPEG2 VCD SVCD (PBC off)

■ **When a disc is played back**

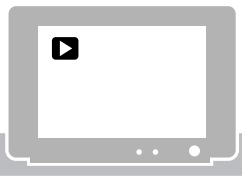
1 **Slide the remote control mode selector to DVD.**

2 **Press PREVIOUS ⏮ or NEXT ⏭.**

- Each time you press the button, the playback position skips to the beginning of the previous or next chapter/track/file.
- Press **PREVIOUS** ⏮ once to skip back to the beginning of the chapter or track currently being played back (except for a JPEG disc).
- Press **GROUP/TITLE** ⏭ or ⏮ to select the title or group.
- During playback of an MP3/WMA/JPEG/ ASF/DivX disc, press **NEXT** ⏭ or ▼ (cursor) to play back the next file, or press **PREVIOUS** ⏮ or ▲ (cursor) to play back the previous file.

NOTE

- *You can use this function while the disc is stopped except for a DVD VIDEO. You can use ▲ or ▼ (cursor) to skip to the beginning of a track while you are viewing the TV screen.*
- *You cannot use this function for some discs.*



Guide icons displayed on the TV screen (on-screen guide)

Play	Containing multi-view angles (☞ page 33)
Pause	Containing multi-audio languages (☞ page 32)
Fast reverse/fast forward search	Containing multi-subtitle languages (☞ page 32)
Slow motion playback (reverse/ forward directions)	The disc cannot accept the operation you have attempted.

Skipping at about 5 minute intervals

DivX MPEG1 MPEG2

You can skip within a file at about 5 minute intervals.
This is useful especially when you want to skip within a long file.

■ **When a disc is played back**

1 **Slide the remote control mode selector to DVD.**

2 **Press ◄ or ► (cursor).**

- Each time you press the button, the playback position skips to the beginning of the previous or next interval. Each interval is about 5 minutes.

NOTE

- *Intervals are automatically assigned from the beginning of a file.*
- *You can use this function only within the same file.*
- *You cannot use this function for some discs.*

Resuming playback

DVD VIDEO DVD AUDIO DVD VR VCD SVCD MP3 WMA ASF DivX MPEG1 MPEG2

When playback is stopped in the middle, playback can be started from the stopped position.

Temporarily stopping playback

■ **When a disc is played back**

1 **Slide the remote control mode selector to DVD.**

2 **Follow any of the operations below.**

Press ■ once.*1 *2
Press ⏻/I **AUDIO** to turn off the power of the receiver.
Press ⏻/I **DVD** to turn off the power of the DVD player.
Change the source to FM/AM or AUX.*2

*1 "RESUME" will be displayed. If ■ is pressed again at this time, "RESUME" will disappear and the stored information will be cleared.

*2 After playback is stopped, even if the receiver or the DVD player is turned off by pressing ⏻/I **AUDIO** or ⏻/I **DVD**, the position where playback has been stopped will be stored.

Starting playback from the stored position

1 **Slide the remote control mode selector to DVD.**

2 **Press ► (play).**

NOTE

- *This function does not work in program playback or random playback.*
- *The position where playback starts again may be a little different from the stopped position.*
- *When the menu screen is displayed, the resume playback function may not work.*
- *The audio language, the subtitle language and the angle at that time are stored together with the stopped position.*
- *The stored position will be cleared if the disc tray is opened.*
- *The resume playback function is activated as the initial setting. You can disable the resume playback function. (☞ "RESUME" on page 39)*

For the locations of the remote control buttons, refer to page 20.

Selecting a track from the menu screen

DVD VIDEO DVD AUDIO VCD SVCD (PBC off)

■ When a disc is stopped or played back

1 Slide the remote control mode selector to DVD.

2 Press MENU/PL or TOP MENU/PG.

- The menu screen will be displayed.
- Only **TOP MENU/PG** can be used for DVD AUDIOs.

3 Press ▲/▼/◄/► (cursor) (only for a DVD VIDEO or DVD AUDIO) or the number buttons to select the desired track.

- Refer to "Using the number buttons" (☞ page 15).
- When the menu screen has a couple of pages, press **PREVIOUS** ⏮ or **NEXT** ⏭ to change the page (only for a VCD and SVCD).

4 Press ENTER.

NOTE

- *You cannot use this function for a disc without a menu screen.*
- *Playback may start for some discs without pressing* **ENTER***.*

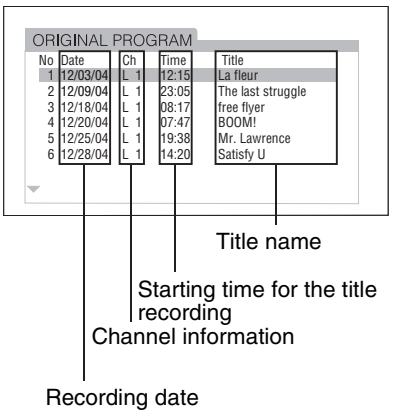
DVD VR

■ When a disc is stopped or played back

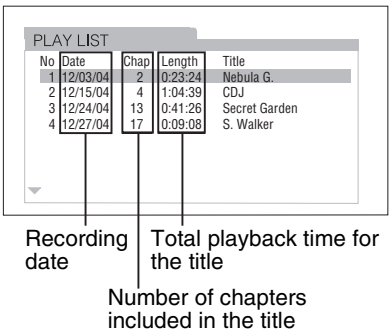
1 Slide the remote control mode selector to DVD.

2 Press TOP MENU/PG to display the original program or press MENU/PL to display the play list.

■Original program



■Play list

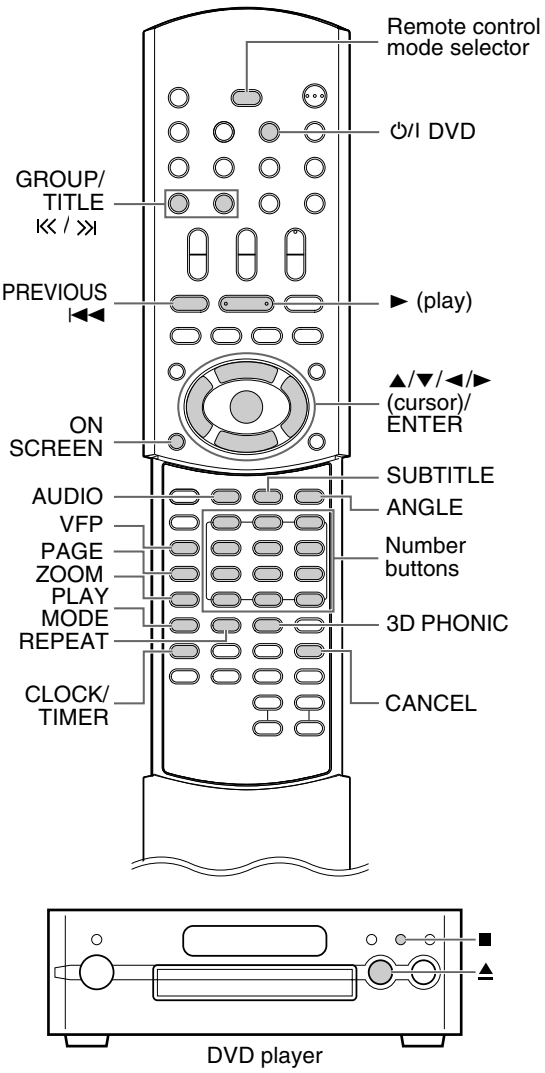


- The play list will not appear when a play list has not been recorded to the disc.

3 Press ▲/▼ (cursor) to select the desired title.

4 Press ENTER.

- When you have selected the original program by pressing **TOP MENU/PG** in step 2, playback will start from the selected title to the following titles.
- When you have selected the play list by pressing **MENU/PL** in step 2, only the selected title will be played back.



Locking DVD/CD ejection

You can lock the disc tray to prevent the disc from being ejected.

Setting

Turn off the DVD player. And while holding down ■ on the DVD player, press ⏏ on the DVD player.

- "LOCKED" appears in the display window on the DVD player.

Releasing

Follow the same instructions as those for setting.

- "UNLOCKED" appears in the display window on the DVD player.

Playing back a DVD/CD in the desired order (Program playback)

DVD VIDEO DVD AUDIO VCD SVCD CD MP3 WMA

You can program a maximum of 99 tracks or chapters. The same track or chapter can be programmed more than once.

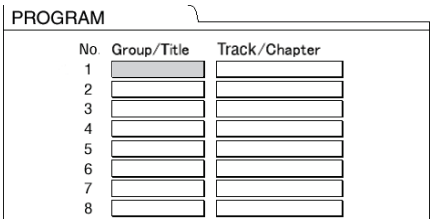
■ **When a disc is stopped**

1 Slide the remote control mode selector to DVD.

2 Press PLAY MODE repeatedly to display "PROGRAM" in the display window on the DVD player.

Example:
Display on the DVD player for a DVD VIDEO

Example:
TV screen for a DVD VIDEO (Program screen)



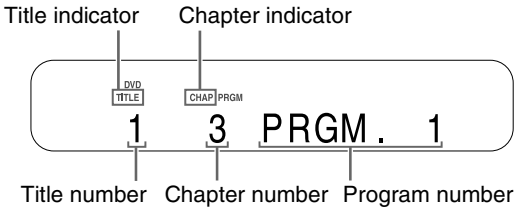
(Continued on the next page)

3 Press the number buttons to program chapters/tracks.

- Refer to “Using the number buttons” (☞ page 15).

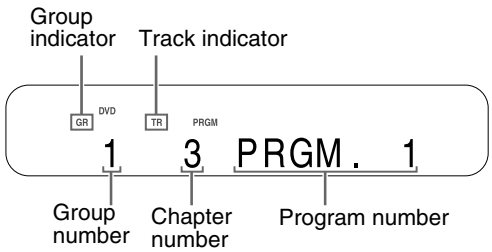
■Display on the DVD player for DVD VIDEO

- Select a title number, and then a chapter number.



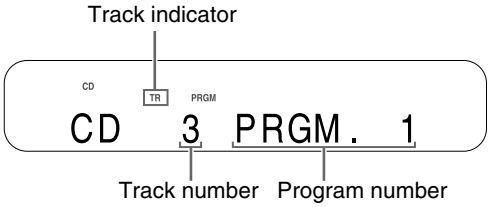
■Display on the DVD player for DVD AUDIO/ MP3/WMA disc

- Select a group number, and then a track number.



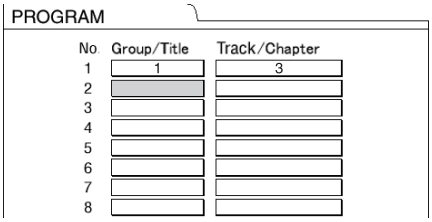
■Display on the DVD player for VCD/SVCD/CD

- Select a track number.
- As you finish the track selection, the total time for the program playback will be displayed.



Example:

TV screen for a DVD VIDEO (Program screen)



- Before selecting a bonus group of a DVD AUDIO, cancel the “BONUS” display as explained in “Playing back the bonus group” on page 34.
- When you try to enter more than 99 chapters or tracks, “MEMORY FULL” appears.
- In the case of a VCD, SVCD or CD, when the total playback time reaches 9 hours 59 minutes 59 seconds, “--:--” will be displayed in the display window on the DVD player.

NOTE

- *Only for a DVD VIDEO, DVD AUDIO, MP3, WMA disc, if you press* **ENTER** *instead of specifying a track/chapter number, “ALL” is displayed and all of the tracks/chapters included in the selected group/ title are programmed.*

4 Press ► (play).

- To return to normal playback, press **PLAY MODE** repeatedly to turn off “PRGM” (the upper indicator) in the display window on the DVD player while the disc is stopped. The program content will not be erased.
- The following operations erase the program content.
  - Hold down **CANCEL** until “ALL CLEAR!” appears in the display window while the program screen is displayed on the TV screen (if **CANCEL** is pressed and released quickly, programs will be erased one by one).
  - Open the disc tray.
  - Turn off the power. (Only when the setting save function (☞ page 31) is not being used)

Playing back a DVD/CD in a random order (Random playback)

DVD VIDEO DVD AUDIO VCD SVCD CD MP3 WMA

■ **When a disc is stopped**

1 **Slide the remote control mode selector to DVD.**

2 **Press PLAY MODE repeatedly to display "RANDOM" in the display window on the DVD player.**

- "RANDOM" will also be displayed on the TV screen.

3 **Press ► (play).**

- The same chapter or track will not be played back twice.
- To return to normal playback, press **PLAY MODE** repeatedly to turn off "RND" (the upper indicator) in the display window on the DVD player while the disc is stopped.
- The following operations also cancel random playback.
  - Open the disc tray.
  - Turn off the power. (Only when the setting save function (☞ page 31) is not being used)
- The previous track will not be returned to even if **PREVIOUS** I◄◄ is pressed repeatedly during random playback. (Playback will be returned to the beginning of the current chapter or track.)

NOTE

- *You cannot use the random playback function for some DVD VIDEOs.*

Playing back a DVD/CD repeatedly (Repeat playback)

DVD VIDEO DVD AUDIO DVD VR CD MP3 WMA JPEG ASF DivX MPEG1 MPEG2 VCD SVCD

└(PBC off)

■ **When a disc is played back**

1 **Slide the remote control mode selector to DVD.**

2 **Press REPEAT.**

- Each time you press the button, the repeat mode changes.

Display on the TV screen	Display in the display window on the DVD player	Usage for the repeat mode
TITLE	ALL REPEAT TITLE	Repeats the current title.
ALL or REPEAT ALL	ALL REPEAT ALL	Repeats the whole disc*1.
GROUP*2 or REPEAT GROUP	GR REPEAT GROUP*2	Repeats the current group*3.
CHAP*4	REPEAT CHAP*4	Repeats the current chapter.
TRACK*4 or REPEAT TRACK	REPEAT TRACK*4	Repeats the current track.
OFF or no display	REPEAT OFF	Repeat off

*1 Repeats the whole program during program playback.
*2 For a DVD VR, "PG" is displayed during original program playback, and "PL" is displayed during play list playback.
*3 Repeats the current original program or the current play list for a DVD VR.
*4 "STEP" is displayed during program/random playback.

NOTE

- *The repeat playback can also be set on the menu bar. (☞ "Playing back a specified part repeatedly (A-B repeat playback)" on page 31)*
- *For a DVD VIDEO, DVD AUDIO and DVD VR, if the source is switched to FM/AM or AUX, the repeat mode will be cancelled.*
- *The repeat mode will be automatically cancelled if there is a file that cannot be played back (☞ page 47).*

Playing back a specified part repeatedly (A-B repeat playback)

DVD VIDEO DVD AUDIO DVD VR CD VCD SVCD (PBC off)

You can play back the desired part repeatedly by specifying a start point (A) and an end point (B).

■ **When a disc is played back**

1 **Slide the remote control mode selector to DVD.**

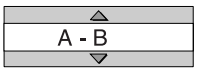
2 **Press ON SCREEN twice.**

- The menu bar (☞ page 36) will be displayed.

3 **Press ◄/► (cursor) to select** ↻ OFF **.**

4 **Press ENTER.**

5 **Press ▲/▼ (cursor) to display**



.

- Other repeat modes can be selected in this step. For other repeat modes, refer to "Playing back a DVD/CD repeatedly (Repeat playback)" (☞ page 30).

6 **Press ENTER at the start point of the part to be repeated (specifying point A).**

- The icon on the menu bar will be ↻ A- .

7 **Press ENTER at the end point of the part to be repeated (specifying point B).**

- The icon on the menu bar will be ↻ A-B . ↻ will appear in the display window on the DVD player and the part between points A and B will be played back repeatedly.
- A-B repeat playback can be cancelled by following the operations below.
  - Press ■.
  - Select ↻ A-B and press **ENTER** twice. (Select ↻ OFF .)

NOTE

- *You can use A-B repeat playback only within the same title or track.*
- *You cannot use A-B repeat playback during program playback, random playback or repeat playback.*
- *You cannot use the A-B repeat playback function for some DVD VIDEOs.*

Saving the playback settings for next time

DVD VIDEO DVD AUDIO DVD VR VCD SVCD CD MP3 WMA JPEG ASF MPEG1 MPEG2

You can save the settings for program playback, random playback or repeat playback so that the settings are activated even after the DVD player is turned off and then on again.

Combining this function with the playback timer (☞ page 43), you can make a variety of playback settings.

1 **Slide the remote control mode selector to DVD.**

2 **Press CLOCK/TIMER.**

- The current settings for program/random/repeat playback will be stored.

Display on the DVD player

NOTE

- *To cancel the setting save function, press* **CLOCK/TIMER** *again.*

- *Opening the disc tray also cancels the setting save function.*
- *Resume playback does not work when the settings for program/random/repeat playback are saved. For example, if the program playback settings are saved and* ⏻/I **DVD** *is pressed to turn off the DVD player during playback, pressing* ⏻/I **DVD** *to turn on the DVD player again and pressing ► (play) starts playback of the first programmed track/chapter. Conversely, if the program playback settings are not saved and ► (play) is pressed after the DVD player is turned on, the resume playback function operates and playback starts from the point where the disc was stopped.*
- *For a JPEG/ASF/DivX/MPEG1/MPEG2 disc, you can use the setting save function for repeat playback only.*

Selecting the subtitles

DVD VIDEO DVD VR SVCD DivX DVD AUDIO
(only for moving image)

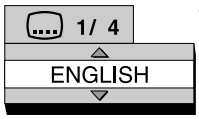
This part explains the operation with displays of a DVD VIDEO as examples.
You can use discs of other types in almost the same manner.

■ When a disc contains subtitles and is played back

1 **Slide the remote control mode selector to DVD.**

2 **Press SUBTITLE.**

Example:



TV screen

- Each time you press the button, the subtitle will toggle between on and off.

3 **Press ▲/▼ (cursor) to select a subtitle language.**

4 **Press ENTER.**

- The subtitle language setting will change automatically in a few seconds even if **ENTER** is not pressed.

NOTE

- *You can use this function with the menu bar (☞ page 36).*
- *For a language code such as "AA", refer to "Language codes" (☞ page 51).*

Selecting the audio language

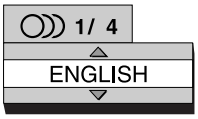
DVD VIDEO DVD AUDIO DVD VR VCD SVCD DivX

■ When a disc contains multiple audio languages and is played back

1 **Slide the remote control mode selector to DVD.**

2 **Press AUDIO.**

Example:



TV screen

- Each time you press the button, the audio language will be changed. Also, the audio language can be changed by pressing ▲/▼ (cursor).

3 **Press ENTER.**

- The audio language setting will change automatically in a few seconds even if **ENTER** is not pressed.

NOTE

- *You can use this function with the menu bar (☞ page 36).*
- *For a language code such as "AA", refer to "Language codes" (☞ page 51).*
- *"ST", "L" and "R" displayed when playing back a VCD, SVCD or DVD VR respectively represent "Stereo", "Left sound" and "Right sound".*
- *For a DivX disc, only the number of the language is displayed on the TV screen.*

Selecting the view angle

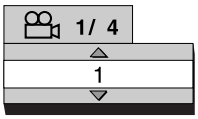
DVD VIDEO DVD AUDIO
(only for moving image)

■ **When a scene containing multi-view angles is played back**

1 **Slide the remote control mode selector to DVD.**

2 **Press ANGLE.**

Example:



TV screen

- Each time you press the button, the angle will be changed. Also, the angle can be changed by pressing ▲/▼ (cursor).

3 **Press ENTER.**

- The angle setting will change automatically in a few seconds even if **ENTER** is not pressed.

NOTE

- *You can use this function with the menu bar (☞ page 36).*

Magnifying the picture (ZOOM)

DVD VIDEO DVD VR VCD SVCD JPEG ASF DivX MPEG1 MPEG2 DVD AUDIO
(only for moving image)

■ **When a disc is played back or paused**

1 **Slide the remote control mode selector to DVD.**

2 **Press ZOOM.**

- Each time you press the button, the picture magnification will be changed.

3 **Select the portion you want to magnify by using ▲/▼/◄/► (cursor).**

- To return to normal playback, select “ZOOM OFF” in step 2.

NOTE

- *For a JPEG disc, you cannot change the picture magnification during slide-show playback.*
- *During ASF playback, there may be a case where ▲/▼/◄/► (cursor) does not work in step 3.*

Adjusting the picture quality (VFP)

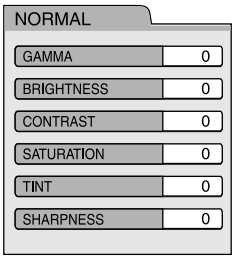
DVD VIDEO DVD AUDIO DVD VR VCD SVCD JPEG ASF DivX MPEG1 MPEG2

■ **When a disc is played back or paused**

1 Slide the remote control mode selector to DVD.

2 Press VFP.

- The current setting will appear on the TV screen.



- The “GAMMA” setting adjusts the brightness of neutral tints while maintaining the brightness of dark and bright portions.
- The “SHARPNESS” setting adjusts the screen sharpness.

3 Press ◄/► (cursor) to select VFP mode.

- Selecting “NORMAL” is suitable for normal usage, and selecting “CINEMA” is suitable for a dark room. When selecting “NORMAL” or “CINEMA”, proceed to step 8.
- Selecting “USER1” or “USER2” enables you to make detailed adjustment in step 4 and the later steps.

4 Press▲/▼ (cursor) to select an item to be adjusted.

5 Press ENTER.

Example:

TV screen

6 Press ▲/▼ (cursor) to change the value.

7 Press ENTER.

- To adjust other items, go back to step 4.

8 Press VFP.

NOTE

- *If no operation is made for several seconds during the procedure, the settings made so far will be automatically stored.*
- *“VFP” stands for “Video Fine Processor”.*

Playing back the bonus group

DVD AUDIO

There are some DVD AUDIOs with a special group, called “bonus group”, recorded.

NOTE

- *You can use this function when “BONUS” lights up in the display window on the DVD player.*

■ **When a disc is played back**

1 Slide the remote control mode selector to DVD.

2 Press GROUP/TITLE ⋙| repeatedly to select a bonus group.

- “KEY_ _ _ _” appears on the TV screen, and in the display window on the DVD player.

3 Press the number buttons to enter the pin code (4 digits).

- The method of obtaining a pin code differs depending on the disc.

4 Press ENTER.

- When the correct pin code is entered, “BONUS” disappears and the playback of the bonus group starts.
- If an incorrect pin code is entered, try entering the correct pin code again.

Browsable still pictures (B.S.P.)

DVD AUDIO

Some DVD AUDIOs may have pictures called B.S.P. (Browsable Still Pictures). The pictures can be viewed as if you are turning pages.

NOTE

- *You can use this function when "B.S.P." lights up in the display window on the DVD player.*

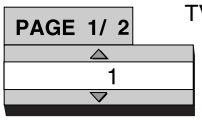
■ **When a disc is played back**

1 Slide the remote control mode selector to DVD.

2 Press PAGE.

- Each time you press the button, the still picture will be changed. You can also switch the picture using ▲/▼ (cursor).

Example:



TV screen

3 Press ENTER.

- The picture setting will change automatically in a few seconds even if **ENTER** is not pressed.

NOTE

- *You can use this function with the menu bar (☞ page 36).*

Creating realistic sound (3D PHONIC)

DVD VIDEO DVD AUDIO DVD VR VCD SVCD CD MP3 WMA

The two speakers produce an effect resembling surround-sound.

■ **When a disc is played back**

1 Slide the remote control mode selector to DVD.

2 Press 3D PHONIC repeatedly to select the desired sound effect.

Example:

Display on the DVD player

This indicator lights up when 3D PHONIC is activated.

- "ACTION" is suitable for action movies, sport programs or other lively programs.
- Select "DRAMA" to enjoy a sound effect with a relaxing, natural atmosphere.
- Select "THEATER" to enjoy a sound effect as if you were watching the movie in a theater.
- Select "3D PHONIC OFF" to cancel 3D PHONIC. (initial setting)

NOTE

- *3D PHONIC is effective for both the speakers and headphones.*
- *If noise is produced or sound is distorted, select "3D PHONIC OFF ".*
- *When 3D PHONIC is activated, analog playback is selected automatically, and "DVD-ANALOG" is displayed in the display window on the receiver. Canceling 3D PHONIC returns to "DVD-DIGITAL" automatically. When a DVD AUDIO is played back, signals are converted into analog signals regardless of whether 3D PHONIC is activated or canceled.*
- *You cannot use this function for some DVD AUDIOs.*
- *When 3D PHONIC is activated, the CC CONVERTER function will be cancelled automatically. (☞ page 17)*
- *For an ASF/DivX/MPEG1/MPEG2 disc, 3D PHONIC does not work and creates no sound effect even when "ACTION", "DRAMA" or "THEATER" is displayed.*

Using the status bar and the menu bar

DVD VIDEO DVD AUDIO DVD VR VCD SVCD CD ASF DivX MPEG1 MPEG2

■ **When a disc is played back**

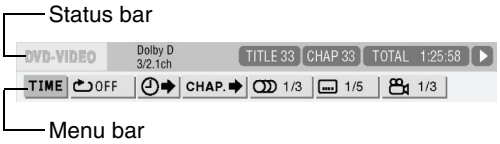
1 Slide the remote control mode selector to DVD.

2 Press ON SCREEN twice.

- "ON SCREEN" will appear in the display window on the DVD player. The status bar and the menu bar will appear on the TV screen.

Example:

When a DVD VIDEO is loaded



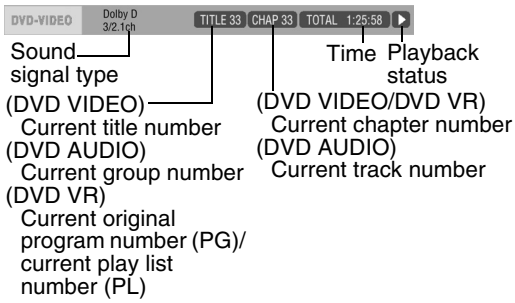
3 Press ◄/► (cursor) to select an item to be operated.

4 Press ENTER.

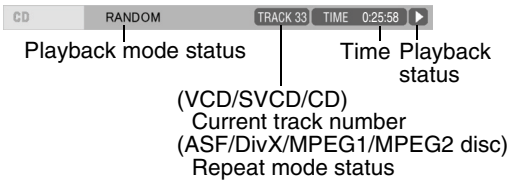
- The selected function can be set. For the setting content, refer to "Function list". (☞ page 37)
- The currently active function is shown in blue.
- To turn off the menu bar, press **ON SCREEN**.

Information displayed on the status bar

DVD VIDEO/DVD AUDIO/DVD VR (the example below is for a DVD VIDEO)



VCD/SVCD/CD/ASF/DivX/MPEG1/MPEG2 disc (the example below is for a CD)



NOTE

- *The playback status has the same meaning of the mark on the on-screen guide (☞ page 25).*

For the locations of the remote control buttons, refer to page 28.

Function list

For functions with no description of the operation, press ▲/▼ (cursor) to select and press **ENTER** to determine the function.

TIME Time display selection	Changes the time information in the display window on the DVD player and the status bar. Each time **ENTER** is pressed, the display will be changed. **DVD VIDEO/DVD AUDIO (operating during playback)** TOTAL: Elapsed playback time of the current title/group. T.REM: Remaining time of the current title/group. TIME : Elapsed playback time of the current chapter/track. REM : Remaining time of the current chapter/track. **DVD VR (operating during playback)** TOTAL: Elapsed playback time of the current title/group. T.REM: Remaining time of the current title/group. **CD (operating during playback)/VCD/ SVCD** TIME : Elapsed playback time of the current track. REM : Remaining time of the current track. TOTAL: Elapsed playback time of the disc. T.REM: Remaining time of the disc.
Repeat mode	☞ page 30
Time search	☞ on the right
CHAP. / TRACK Chapter search (DVD VIDEO/DVD VR)/Track search (DVD AUDIO)	Selects a chapter/track. Press the number buttons to input the chapter/ track number and press **ENTER**. Examples: 5: 5 24: 2 → 4
Audio language/ Audio (DVD VIDEO/ DVD AUDIO/VCD/ SVCD)	☞ page 32
Subtitle language (DVD VIDEO/DVD VR/SVCD)	☞ page 32
1/ 3 View angle (DVD VIDEO/DVD AUDIO)	☞ page 33
PAGE -/- Page switch (DVD AUDIO)	Switches the browsable still pictures (B.S.P.) recorded on a DVD AUDIO. (☞ page 35)

Designating the time (Time search)

■ When a disc is played back

1 **Slide the remote control mode selector to DVD.**

2 **Press ON SCREEN twice.**

- The menu bar will appear (☞ page 36).

3 **Press ◄/► (cursor) to select .**

4 **Press ENTER.**

5 **Input the time using the number buttons (1-9, 0).**

Example:

When you want to play back a DVD VIDEO from the position of (0 hour) 23 minutes 45 seconds, press the buttons in the order:

0 → 2 → 3 → 4 → 5 .

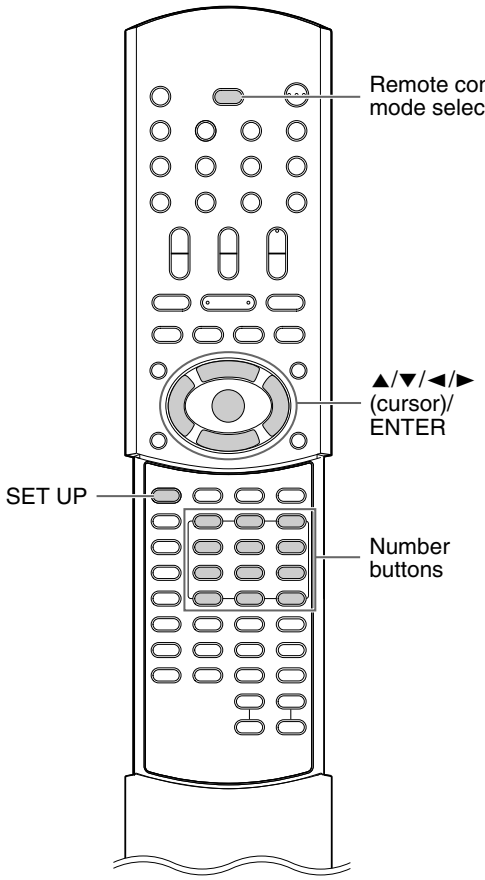
- You can skip the minute and second setting.
- If the incorrect value is input, press ◄ (cursor) to delete the values and input values again.

6 **Press ENTER.**

- To turn off the menu bar, press **ON SCREEN**.

NOTE

- *This function does not work for a DVD VIDEO with no time information recorded.*
- *This function does not work during program playback or random playback.*
- *For a CD, you can use this function any time.*
- *For a VCD or SVCD, you can use this function during playback without the PBC function.*
- *Time search for a DVD VIDEO is from the beginning of the title. Time search for a DVD AUDIO is from the beginning of the track being played back. Time search for a VCD, an SVCD and a CD is as follows:*
  - *When the disc is stopped, time search is from the beginning of the disc.*
  - *When the disc is being played back, time search is within the track currently being played back.*



The initial settings of the DVD player can be changed with the preference screen according to the environment where the DVD player is used.

NOTE

- *The top and bottom of the preference screen may not be displayed on a wide TV. Adjust the picture size on the TV.*

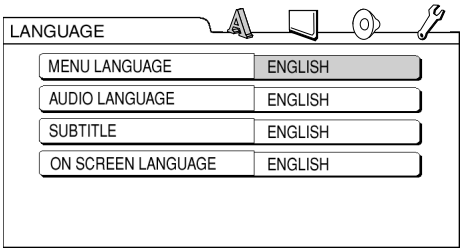
Basic operations

■ **When a disc is stopped or no disc is loaded ("NO DISC" is displayed)**

1 **Slide the remote control mode selector to DVD.**

2 **Press SET UP.**

- The following screen will be displayed on the TV.



- Proceed with operations by following the description on the TV screen.

LANGUAGE

NOTE

- *If the selected language is not recorded on the disc, the optimum language set for the disc will be displayed.*
- *For a language code such as "AA", refer to the "Language codes" (☞ page 51).*

Items	Contents
MENU LANGUAGE	Selects the language for the DVD VIDEO menu screen.
AUDIO LANGUAGE	Selects the audio language for the DVD VIDEO.
SUBTITLE	Selects the subtitle language for the DVD VIDEO.
ON SCREEN LANGUAGE	Selects the language displayed on the preference screens.

PICTURE

Items	Contents (: initial setting)
MONITOR TYPE	**16 : 9:** For an ordinary wide TV. **4 : 3 LB (Letterbox) :** For a TV with conventional 4:3 aspect ratio. When a wide screen picture is input, the black bars appear on the top and bottom of the screen. **4 : 3 PS (Pan Scan):** For a TV with conventional 4:3 aspect ratio. When a wide screen picture is input, the left and right edges of the picture will not be shown on the screen. (If the disc is not compatible with Pan Scan, the picture will be displayed at the Letterbox ratio.)
PICTURE SOURCE	Select an item suitable to the video source. **AUTO :** The video source type (a video or film) is automatically selected. **FILM:** To view a film or video recorded with the progressive scan method. **VIDEO:** To view a normal video.
SCREEN SAVER	Select the Screen Saver mode between **ON** / **OFF** (Screen Saver activates when there is no operation made for about 5 minutes since a still picture was last displayed).
FILE TYPE	Select an item suitable to the file type. **AUDIO :** For MP3/WMA files. **STILL PICTURE:** For JPEG files. **VIDEO:** For ASF/DivX/MPEG1/MPEG2 files.

AUDIO

Items	Contents (: initial setting)
DIGITAL AUDIO OUTPUT*	**Select the output signal type suitable to the equipment connected to the DIGITAL OUT terminal (a decoder-built-in amplifier or other digital equipment with an optical input terminal). Refer to "List of relationships of DIGITAL AUDIO OUTPUT preference items and output signal" (☞ page 40).** **PCM ONLY :** Equipment corresponding only to linear PCM. **DOLBY DIGITAL/PCM:** Dolby digital decoder or equipment having the same function. **STREAM/PCM:** DTS/Dolby digital decoder or equipment having the same function.
DOWN MIX	**Select the signal suitable to the equipment connected to the DIGITAL OUT terminal. Set "DOWN MIX" only when "DIGITAL AUDIO OUTPUT" is set to "PCM ONLY".** **DOLBY SURROUND:** Dolby Pro Logic decoder-built-in equipment. **STEREO :** Ordinary audio equipment.
D (Dynamic). RANGE COMPRESSION	**To correct the difference between high volume and low volume when playing back with low volume (only for a DVD recorded with Dolby digital).** **AUTO :** The D. RANGE COMPRESSION function automatically works. **ON:** The D. RANGE COMPRESSION function always works.

* When using the supplied XV-EXA10, make sure that "DIGITAL AUDIO OUTPUT" is set to "PCM ONLY".

OTHERS

Items	Contents (: initial setting)
RESUME	**Select ON /OFF. (☞ page 26)**
ON SCREEN GUIDE	**Select ON /OFF. (☞ page 25)**
AV COMPULINK MODE	**When you want to control the supplied DVD player and the connected TV or other equipment at the same time, select a setting according to the type of terminal on the equipment connected to the DVD player. (Refer to "Using the AV COMPU LINK function" (☞ page 45).)** **DVD1 :** When the video 3 input terminal on the TV or the DVD input terminal is connected. **DVD2:** When the video 1 input terminal on the TV is connected. **DVD3:** When the video 2 input terminal on the TV is connected.
DivX REGISTRATION	**The DVD player has its own registration code. You can confirm the registration code, when necessary. Once you have played back a disc in which the registration code is recorded, the registration code of the DVD player is overwritten for copyright protection.**

For the locations of the remote control buttons, refer to page 38.

List of relationships of DIGITAL AUDIO OUTPUT preference items and output signal

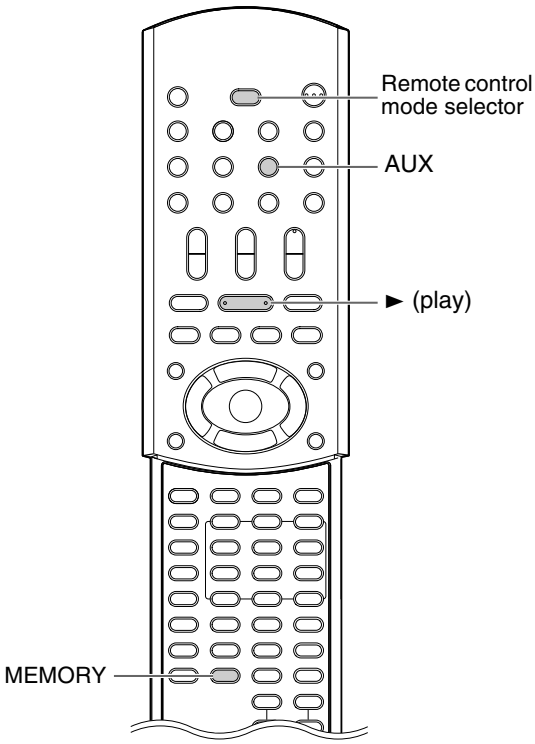
Playback disc	DIGITAL AUDIO OUTPUT preference		
	PCM ONLY	DOLBY DIGITAL/PCM	STREAM/PCM
48 kHz, 16/20/24 bit Linear PCM DVD VIDEO 96 kHz linear PCM DVD VIDEO	48 kHz, 16 bit stereo linear PCM		
48/96/192 kHz, 16/20/24 bit linear PCM DVD AUDIO*	48 kHz, 16 bit stereo linear PCM		
44.1/88.2/176.4 kHz, 16/20/24 bit linear PCM DVD AUDIO*	44.1 kHz, 16 bit stereo linear PCM		
DTS DVD VIDEO/DVD AUDIO*	48 kHz, 16 bit stereo linear PCM		DTS bit stream
DOLBY DIGITAL DVD VIDEO/DVD AUDIO*	48 kHz, 16 bit stereo linear PCM	DOLBY DIGITAL bit stream	
VCD/SVCD/CD	44.1 kHz, 16 bit stereo linear PCM/48 kHz, 16 bit linear PCM		
DTS CD	44.1 kHz, 16 bit linear PCM		DTS bit stream
MP3/WMA/DivX disc	32/44.1/48 kHz, 16 bit linear PCM		

NOTE

** Copyright-protected DVD AUDIOs do not output signals.*

- *Among DVD VIDEOs without copyright protection, there may be some DVD VIDEOs that output a 20 or 24 bit signal through the digital audio output terminals.*
- *To produce the sound from the loaded disc in the DVD player, select "PCM ONLY". Otherwise the receiver does not detect the signal and no sound is produced. (The initial setting is "PCM ONLY".)*

Listening to the sound of other audio equipment



Connect the other audio equipment to this system in advance (☞ page 12).

1 Slide the remote control mode selector to RECEIVER.

2 Press AUX to select "AUX-DIGITAL" or "AUX".

- Each time you press **AUX**, the display on the receiver toggles between "AUX-DIGITAL" and "AUX".
- The source changes to the signal from the AUX terminals.
- You can also use **SOURCE SELECT** on the receiver to select the signal from the AUX terminals as the sound source.

3 Begin playback on the other audio equipment.

- For details on beginning playback, refer to the manual of the connected equipment.

4 Adjust the volume and the sound quality of the system (☞ page 16).

NOTE

- *When no equipment is connected to the DIGITAL IN AUX terminal or the power of the connected equipment is off, after "AUX-DIGITAL" is selected, the display changes to "AUX-D UNLOCK".*

Adjust the sound input level of the audio equipment

You can adjust the sound input level of audio equipment connected to the AUX terminals.

1 Slide the remote control mode selector to RECEIVER.

2 Press AUX to select "AUX".

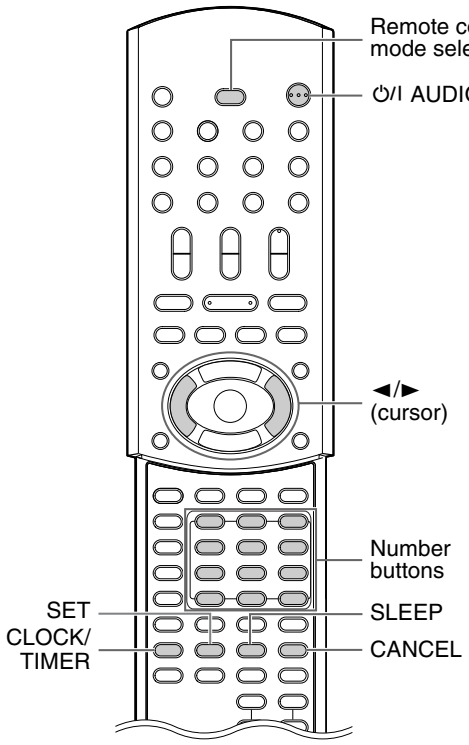
- Each time you press **AUX**, the display on the receiver toggles between "AUX-DIGITAL" and "AUX".
- The source changes to the signal from the AUX terminals.

3 Hold down MEMORY until the input level is displayed.

- Each time you hold down the button, the input level switches as follows:

LEVEL1 STORED: For normal use. (initial setting)

LEVEL2 STORED: To correct distorted sound caused by an extremely high input level from other equipment.



Using the sleep timer

When the time you specify elapses, the system will be turned off automatically.

1 Slide the remote control mode selector to RECEIVER.

2 Press SLEEP.

- Each time you press the button, the time indicated in the display window on the receiver changes (in minutes).

Example:
Display on the receiver when the sleep timer is set to 60 minutes

The sleep timer will be automatically set in a few seconds, and the indication will disappear.

NOTE

When the sleep timer is set, the display window darkens automatically.

Changing the time

Select the time again by pressing SLEEP repeatedly in step 2.

Confirming the time

Press SLEEP once in step 2 while the sleep timer is set.

Canceling the sleep timer

Press SLEEP repeatedly in step 2 until "SLEEP OFF" appears.

NOTE

- *The sleep timer will also be cancelled when the power is turned off.*

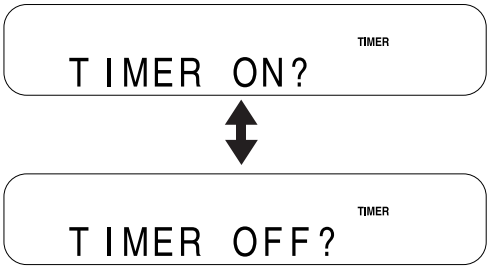
Using the playback timer

Set the clock beforehand. (☞ page 15)

1 **Slide the remote control mode selector to RECEIVER.**

2 **Press CLOCK/TIMER.**

Display on the receiver



- If you accidentally pressed **CLOCK/TIMER** twice or more, press **CLOCK/TIMER** repeatedly until the display shown above is displayed.

3 **Press SET.**

4 **Set the starting time and ending time with ◄, ► (cursor), and then press SET.**

Example:
Display on the receiver when setting the starting time to 8:45 (for U.S.A. or Canada models)

Display on the receiver when setting the ending time to 9:45 (for U.S.A. or Canada models)

- Press ◄ or ► (cursor) to select the value and press **SET** to set the value.
- You can use the number buttons instead of ◄ or ► (cursor). Refer to “Using the number buttons” (☞ page 15).
- For U.S.A. or Canada models, the time display on the receiver is a 12-hour clock.
- For models sold at post exchanges, the time display on the receiver is a 24-hour clock.

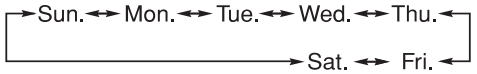
5 **Press ◄ or ► (cursor) to select “ONCE” or “WEEKLY”, and then press SET.**

ONCE	The playback timer works once.
WEEKLY	The playback timer works weekly or every day.

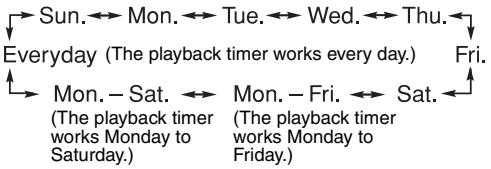
6 **Press ◄ or ► (cursor) to select the desired day of the week, and then press SET.**

- Each time you press ◄ or ► (cursor), the display changes as follows.

When “ONCE” is selected



When “WEEKLY” is selected



7 **Press ◄ or ► (cursor) to select the desired sound source, and then press SET.**

- If you have selected “FM” or “AM” in this step, press ◄, ► (cursor) or the number buttons to select the preset number of the radio station whose broadcast you want to listen to (Refer to “Using the number buttons” (☞ page 15)), and then press **SET**.

8 **Press ◄ or ► (cursor) to adjust the playback volume, and then press SET.**

- You can use the number buttons to specify the volume.
- The settings will appear in the display window on the receiver.

9 Press ⏻/I AUDIO to turn off the receiver.

- The playback timer is available only when the receiver is off.

This indicator lights up when the playback timer is activated.

NOTE

- *Complete the playback timer setting at least 1 minute prior to the starting time you have selected in step 4.*
- *While setting the playback timer, you can return to the previous step by pressing* **CANCEL** *or you can stop the setting by pressing* **CLOCK/TIMER**.
- *When the playback starts, the volume gradually increases to the selected level.*
- *You can make a variety of playback settings by combining the playback timer and saving the settings for program playback, random playback or repeat playback. (☞ page 31)*

Canceling the playback timer

Press CANCEL after following steps 1 and 2 on page 43.

NOTE

- *Even after you canceled the playback timer, the setting remains stored.*

Activating the playback timer again

After following steps 1 and 2 on page 43, press ENTER. Then press ⏻/I AUDIO to turn off the receiver.

NOTE

- *When the power cord of the receiver is disconnected from the AC outlet or the power is interrupted, the clock and the playback timer settings may be lost. If the settings are lost, set the clock and playback timer again.*

Confirming the playback timer settings

Press SET repeatedly after following steps 1, 2 and 3 on page 43.

- To return to the normal display while confirming the settings, press **CLOCK/TIMER**.

Changing the playback timer settings

Set the playback timer again from step 1 on page 43.

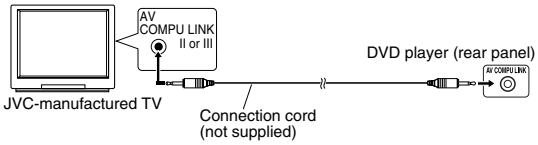
Using the AV COMPU LINK function

When a JVC-manufactured TV with AV COMPU LINK II or III terminals is connected to the DVD player using these terminals, operating either the TV or the DVD player controls the other equipment at the same time.

Connection and setup

NOTE

- *"AV COMPU LINK" is printed for terminals on some JVC-manufactured TVs. These terminals are no different from the "AV COMPU LINK I/II" or "AV COMPU LINK" terminal.*
- *Refer to "OTHERS" (☞ page 39) for determining the "AV COMPULINK MODE" setting.*
- *Also refer to the manual of the TV to be connected to the DVD player.*



Input terminal on the TV	"AV COMPULINK MODE" setting
Video 1	DVD2
Video 2	DVD1

- Connect the video 3 (DVD) input terminal on the TV.
- If the video 3 input terminal is used for the playback of a digital video movie, this terminal does not work with the AV COMPU LINK function.

Operation

1 **Turn on the main power of the TV.**

2 **Slide the remote control mode selector to DVD.**

3 **Press ▲ OPEN/CLOSE.**

- The disc tray ejects.

4 **Place a disc.**

5 **Press ► (play) or DVD.**

- The power of the TV is turned on.
- The input mode on the TV changes to either the video 1 input or the video 3 (DVD) input.

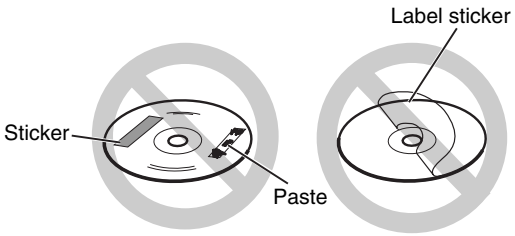
Notes on handling

■ Important cautions

Installation of the system
- Select a place which is level, dry and neither too hot nor too cold; between 5°C and 35°C (between 41°F and 95°F).
- Leave sufficient distance between the system and the TV.
- Do not use the system in a place subject to vibration.

Power cord
- Do not handle the power cord with wet hands!
- A small amount of power is always consumed while the power cord is connected to the wall outlet.
- When unplugging the power cord from the wall outlet, always pull on the plug, not the power cord.

To prevent malfunctions of the system
- There are no user-serviceable parts inside. If anything goes wrong, unplug the power cord and consult your dealer.
- Do not insert any metallic object into the system.
- Do not use any non-standard shape disc (like a heart, flower or credit card, etc.) available on the market, because it may damage the system.
- Do not use a disc with tape, stickers, or paste on it, because it may damage the system.



Note about copyright laws
Check the copyright laws in your country before recording from DVDs, VCDs, SVCDs and CDs. Recording of copyrighted material may infringe copyright laws.

Note about copy guard system
DVDs are protected by copy guard system. When you connect the system to your VCR directly, the copy guard system activates and the picture may not be played back correctly.

■ Safety precautions

Avoid moisture, water and dust
Do not place the system in moist or dusty places.

Avoid high temperatures
Do not expose the system to direct sunlight and do not place it near a heat source.

When you are away
When away on travel or for other reasons for an extended period of time, disconnect the power cord plug from the wall outlet.

Care of the cabinet
When cleaning the system, use a soft cloth and follow the relevant instructions on the use of chemically-coated cloths. Do not use benzene, thinner or other organic solvents including disinfectants. These may cause deformation or discoloring.

Care of the disc tray
When cleaning the disc tray, gently wipe the dirt off the surface with a soft cloth dampened with a small amount of a neutral detergent diluted with water, preventing the discoloration and damage to its surface.

If water gets inside the system
Turn the system off and disconnect the power cord plug from the wall outlet, then call the store where you made your purchase. Using the system in this condition may cause fire or electrical shock.

■ When condensation or water drops adhere to the lens

In any of the following cases, condensation or water drops may adhere to the lens, preventing the system from working properly:
- Immediately after room heating starts
- When the system is installed in a steamy or damp space
- When the system is suddenly moved from a cold place to a warm space

In any of these cases, leave the system turned on for 1 or 2 hours before use.

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Playable DVD/CD types

	CD-R/ CD-RW	DVD-R[1]	DVD-RW
Audio CD format	Playable	—	—
VCD/SVCD format	Playable	—	—
MP3/WMA/ JPEG format	Playable	Playable[4]	Playable[4]
DVD Video format	—	Playable	Playable
DVD VR format	—	Playable[2]	Playable
DivX format	Playable	Playable[3]	Playable
ASF (Advanced Systems Format)	Playable	Playable	Playable
MPEG1/MPEG2 format	Playable	Playable	Playable

- Discs should be finalized before being played back.

1 A DVD-R recorded in multi-border format is also playable (except for dual layer discs).
2 Only when a DVD-R is compatible with CPRM (Content Protection for Recordable Media), DVD VR format can be used.
3 A DivX formatted DVD-ROM is also playable.
4 Among MP3/WMA/JPEG discs, only discs formatted with a combination of Universal Disc Format and ISO 9660 (known as UDF Bridge) are playable.

Some discs may not be played back because of their disc characteristics, recording conditions, or damage or stains on them.

It is possible to play back finalized +R/+RW (DVD Video Format only) discs. “DVD” lights on the front display panel when a +R/+RW disc is loaded.

Only sounds can be played back from the following discs:

MIX-MODE CD CD-G
CD-EXTRA CD TEXT

Region code of DVD VIDEO

DVD VIDEO players and DVD VIDEO discs have their own Region Code numbers. This system can play back DVD VIDEO discs whose Region Code numbers include the system’s Region Code, which is indicated on the rear panel.

Examples:

If a DVD VIDEO with an improper Region Code number is loaded, “REGION CODE ERROR!” appears on the TV screen and playback cannot start.

- **On some DVD VIDEOs, DVD AUDIOs, VCDs, SVCDs or DivX discs, their actual operation may be different from what is explained in this manual. This is due to the disc programming and disc structure, not a malfunction of this system.**

Discs you can play back:

Disc Type	Mark (Logo)
DVD VIDEO	
DVD AUDIO	
VCD	
SVCD	
CD	
CD-R	
CD-RW	
DivX	

Discs that cannot be played back

- The following discs cannot be played back:
  DVD-ROM (except for MP3/WMA/JPEG/ASF/DivX/MPEG1/MPEG2 format), DVD-RAM, CD-ROM, CD-I (CD-I Ready), Photo CD, SACD, etc.
  Playing back these discs will generate noise and damage the speakers.

Damaged discs and discs in an extraordinary shape (other than a disc of 12 cm or 8 cm ($4\frac{3}{4}$″ or $3\frac{3}{16}$″) in diameter) cannot be played back.

About MP3/WMA/JPEG/ASF/DivX/MPEG1/MPEG2 discs

Playable MP3/WMA/JPEG/ASF/DivX/MPEG1/MPEG2 discs and files

- CDs recorded in the ISO 9660 format are playable (except CDs recorded in the “packet write” format (UDF format)).
- CDs recorded with multiple sessions are also playable.
- Files with an extension of “.mp3”, “.wma”, “.jpg”, “.jpeg”, “.asf”, “.divx”, “.div”, “.avi”, “.mpg” or “.mpeg” (extensions with uppercase and lowercase letters mixed are also acceptable) are playable.

Notes on MP3/WMA/JPEG/ASF discs and files

- A disc may not be played back, or reading it may take a long time depending on its recording conditions or properties.
- The time needed for reading varies with the number of groups or tracks (files) recorded on the disc.
- If a character other than single byte English characters is used in the file name of an MP3/WMA/JPEG/ASF file, the track/file name will not be displayed correctly.
- The order of tracks/groups displayed on the MP3/WMA control screen, and the order of files/groups displayed on the JPEG control screen may be different from that of files/folders displayed on a computer monitor screen.
- A commercially available MP3/WMA disc may be played back in an order different from that indicated on the label attached to the disc.
- Playing back an MP3/WMA/JPEG/ASF disc may take a long time. The elapsed time is not displayed until playback starts. The elapsed time may also not be displayed correctly.
- For an MP3/WMA file, a disc with a sampling frequency of 44.1 kHz and transmission rate of 128 kbps is recommended.
- This system can play back a baseline JPEG file, excluding monochromatic JPEG files.
- This system can play back JPEG data taken with a digital camera conforming to the DCF (Design Rule for Camera File System) standard (when a function such as the automatic image rotation function of a digital camera is applied, the data no longer complies with the DCF standard, so the image may not be displayed).
- If data has been processed, edited and restored with computer image editing software, the data may not be displayed.
- This system cannot play back animations such as MOTION JPEG, still images (TIFF etc.) other than JPEG, or image data with sound.
- The resolution of 640 x 480 pixels is recommended for JPEG files. If a file has been recorded at a resolution of more than 640 x 480 pixels, display may take a long time. An image with a resolution of more than 8 192 x 7 680 pixels cannot be displayed.
- The system supports ASF files recorded with the maximum bit rate of 384 kbps and an audio coder decoder of G.726.
- The maximum size of the playback picture is 352 x 288 pixels (CIF).

Notes on DivX discs and files

- The system supports DivX 5.x, 4.x and 3.11.
- The system supports DivX files with a resolution of 720 x 480 pixels or less (30 fps) and 720 x 576 pixels or less (25 fps).
- Audio stream should conform to MPEG1 Audio Layer-2 or MPEG Audio Layer-3 (MP3).
- The system does not support GMC (Global Motion Compression).
- Files encoded in the interlaced scanning mode may not be played back correctly.
- Playing back a DivX disc may take a long time. The elapsed time is not displayed until playback starts. The elapsed time may also not be displayed correctly.

Notes on MPEG1/MPEG2 discs and files

- The stream structure of MPEG1/MPEG2 discs and files should conform to MPEG system/program stream.
- 720 x 576 pixels (25 fps)/720 x 480 pixels (30 fps) is recommended for the highest resolution.
- This system also supports the resolutions of 352 x 576/480 x 576/352 x 288 pixels (25 fps) and 352 x 480/480 x 480/352 x 240 pixels (30 fps).
- The profile and level should be MP@ML (Main Profile at Main Level)/SP@ML (Simple Profile at Main Level)/MP@LL (Main Profile at Low Level).
- Audio streams should conform to MPEG1 Audio Layer-2 or MPEG2 Audio Layer-2.

Caution for DualDisc playback:

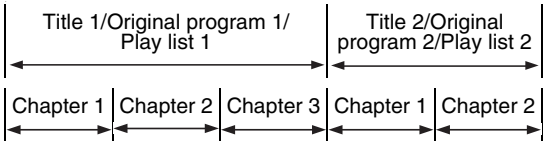
The Non-DVD side of a “DualDisc” does not comply with the “Compact Disc Digital Audio” standard. Therefore, the use of Non-DVD side of a DualDisc on this product may not be recommended.

Disc structure

DVD VIDEO/DVD VR

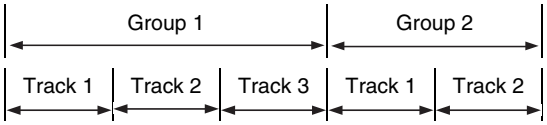
A DVD VIDEO consists of “titles” and each title may be divided into “chapters”.

A DVD VR consists of “original programs” or “play lists” and each original program/play list may be divided into “chapters”.



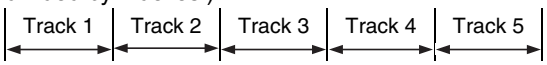
DVD AUDIO

A DVD AUDIO consists of “groups” and each group may be divided into “tracks”.
Some discs include a “bonus group” that requires a password for playback (☞ page 34).



VCD/SVCD/CD

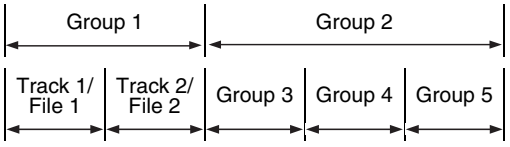
VCD, SVCD and CD consist of “tracks”.
In general, each track has its own track number. (On some discs, each track may also be further divided by indexes.)



MP3/WMA/JPEG/ASF/DivX/MPEG1/MPEG2 discs

On an MP3/WMA/JPEG/ASF/DivX/MPEG1/MPEG2 disc, each still picture (material) is recorded as a track/file. Tracks/files are usually grouped into a folder. Folders can also include other folders, creating hierarchical folder layers.

This system simplifies the hierarchical construction of a disc and manages folders by “groups”.



This system can recognize up to 4 000 tracks/files in a disc. Also, the system can recognize up to 150 tracks/files per group and up to 99 groups in a disc. Since the system ignores tracks/files with numbers exceeding 150 and groups with numbers exceeding 99, these cannot be played back.

- If there is any type of files other than MP3/WMA/JPEG/ASF/DivX/MPEG1/MPEG2 files in a folder, those files are also counted in the total file number.

Troubleshooting

When you encounter a problem that seems to be a fault, check the following points before contacting the JVC service center:

Power source

■ **Power does not come on.**
- The power cord of the receiver or the DVD player is not connected to an AC outlet.
  → Connect the power cord correctly. (☞ page 13)

Operation

■ **You cannot operate any button.**
- Some specific operations may be restricted for some discs.

■ **The remote control does not work.**
- The batteries have run out.
  → Replace the batteries. (☞ page 5)
- The remote control mode selector is slid to wrong position.
  → Most of the buttons on the remote control are assigned to specific remote control modes. Slide the remote control selector to the proper position referring to the explanation of each function.

■ **A disc cannot be played back.**
- In the case of DVD VIDEOs
  → Check the Region Code number of the disc. (☞ page 47)
- "PLAYABLE Err" is displayed in the display window.
  The disc cannot be played back on this DVD player.
  → Check the disc type. (☞ pages 47 and 48)

■ **MP3, WMA, JPEG, ASF, DivX, MPEG1 or MPEG2 files cannot be played back.**
- The loaded disc may include files of different types (MP3, WMA, JPEG, ASF, DivX, MPEG1 or MPEG2). You can play back only the files of the types selected with "FILE TYPE". (☞ page 39)

Images

■ **No picture appears.**
- The composite video cord is not connected correctly.
  → ☞ page 12
- An S-video cord and a component video cord are connected at the same time.
  → Connect either cord. (☞ page 13)

■ **The picture is distorted.**
- A video cassette recorder is connected between the DVD player and the TV.
  → Connect the DVD player directly to the TV. (☞ page 13)

■ **The screen size is abnormal.**
- The screen size is not set correctly.
  → Set "MONITOR TYPE" according to the TV you are using. (☞ page 39)

■ **The TV screen darkens.**
- "SCREEN SAVER" is set to "ON".
  → Press any button. (☞ page 39)

Sound

■ **There is no sound.**
- Speakers are not connected correctly.
  → ☞ page 9
- The receiver and the DVD player are not connected correctly.
  → ☞ page 10
- The sound is muted.
  → ☞ page 16
- "NO AUDIO" is displayed in the display window.
  The disc may have been produced through illegal copying.
  → Check the disc at the store where you bought the disc.

■ **The sound is distorted.**
- The volume is turned up too high.
  → Turn down the volume. (☞ page 16)

■ **No sound comes out of the subwoofer.**
- "S. WOOFER OFF" is selected.
  → Press **S.WFR OUT** repeatedly until "S. WOOFER ON" appears. (☞ page 11)

Radio

■ **The sound has a lot of static./You cannot receive a radio broadcast.**
- The antenna is not connected correctly.
  → Connect the antenna correctly. (☞ pages 7 and 8)

(Continued on the next page)

Other

■ **You cannot switch audio or subtitles between languages.**

- The disc does not contain multiple languages.
  → If only a single language is recorded on the disc, you cannot switch the current language to another language. (☞ page 32)

■ **No subtitle is displayed.**

- The disc does not contain any subtitles.
  → A DVD VIDEO without subtitles cannot display any subtitles.
- The subtitle language is set to "OFF".
  → Specify a language. (☞ page 38)
- Before or after point A or B in A-B repeat playback, no subtitle may be displayed.

■ **The disc cannot be ejected.**

- DVD/CD ejection is locked.
  → ☞ page 28

■ **"LR ONLY" is displayed in the display window (for a DVD AUDIO).**

- This is not a malfunction. When a down mix prohibited track is played back for multi-channel sound, the left and right sounds are output directly as they are.

■ **The tweeters produce no sound.**

- "Single Amp" is selected on the receiver.
  → Select "Bi-Amp". (☞ page 11)

If the system does not work properly despite correction measures aforementioned

Many functions of this system are controlled by microprocessors that can be reset by recycling the power supply. If pressing any button does not result in the normal action, disconnect the power cord from the outlet, wait for a while, and connect the power cord again.

Language codes

Code	Language	Code	Language
AA	Afar	MK	Macedonian
AB	Abkhazian	ML	Malayalam
AF	Afrikaans	MN	Mongolian
AM	Ameharic	MO	Moldavian
AR	Arabic	MR	Marathi
AS	Assamese	MS	Malay (MAY)
AY	Aymara	MT	Maltese
AZ	Azerbaijani	MY	Burmese
BA	Bashkir	NA	Nauru
BE	Byelorussian	NE	Nepali
BG	Bulgarian	NL	Dutch
BH	Bihari	NO	Norwegian
BI	Bislama	OC	Occitan
BN	Bengali, Bangla	OM	(Afan) Oromo
BO	Tibetan	OR	Oriya
BR	Breton	PA	Panjabi
CA	Catalan	PL	Polish
CO	Corsican	PS	Pashto, Pushto
CS	Czech	PT	Portuguese
CY	Welsh	QU	Quechua
DA	Danish	RM	Rhaeto-Romance
DZ	Bhutani	RN	Kirundi
EL	Greek	RO	Rumanian
EO	Esperanto	RU	Russian
ET	Estonian	RW	Kinyarwanda
EU	Basque	SA	Sanskrit
FA	Persian	SD	Sindhi
FI	Finnish	SG	Sangho
FJ	Fiji	SH	Serbo-Croatian
FO	Faroese	SI	Singhalese
FY	Frisian	SK	Slovak
GA	Irish	SL	Slovenian
GD	Scots Gaelic	SM	Samoan
GL	Galician	SN	Shona
GN	Guarani	SO	Somali
GU	Gujarati	SQ	Albanian
HA	Hausa	SR	Serbian
HI	Hindi	SS	Siswati
HR	Croatian	ST	Sesotho
HU	Hungarian	SU	Sundanese
HY	Armenian	SV	Swedish
IA	Interlingua	SW	Swahili
IE	Interlingue	TA	Tamil
IK	Inupiak	TE	Telugu
IN	Indonesian	TG	Tajik
IS	Icelandic	TH	Thai
IW	Hebrew	TI	Tigrinya
JI	Yiddish	TK	Turkmen
JW	Javanese	TL	Tagalog
KA	Georgian	TN	Setswana
KK	Kazakh	TO	Tonga
KL	Greenlandic	TR	Turkish
KM	Cambodian	TS	Tsonga
KN	Kannada	TT	Tatar
KO	Korean (KOR)	TW	Twi
KS	Kashmiri	UK	Ukrainian
KU	Kurdish	UR	Urdu
KY	Kirghiz	UZ	Uzbek
LA	Latin	VI	Vietnamese
LN	Lingala	VO	Volapuk
LO	Laothian	WO	Wolof
LT	Lithuanian	XH	Xhosa
LV	Latvian, Lettish	YO	Yoruba
MG	Malagasy	ZU	Zulu
MI	Maori		

Specifications

Receiver (RX-EXA10)

Tuner
U.S.A. and Canada models
FM frequency: 87.5 MHz - 108.0 MHz
AM frequency: 530 kHz - 1 710 kHz
Post exchange models
FM frequency: 87.50 MHz - 108.00 MHz
AM frequency: 531 kHz - 1 710 kHz (9 kHz spacing)
530 kHz - 1 710 kHz (10 kHz spacing)

Amplifier
Output power (Tweeter): 20 W + 20 W at 6 Ω (10 kHz, THD 10 %)
Output power (Woofer): 30 W + 30 W at 6 Ω (1 kHz, THD 10 %)

Terminal
- Synchronization terminal x 1 (for connecting XV-EXA10)
- Optical digital input terminal x 1 (for connecting XV-EXA10)
  -21 dBm to -15 dBm
- Audio input terminals (2) x 1 (for connecting XV-EXA10)
  500 mV/50 k Ω
- Audio output speaker terminals (2) x 4
  Impedance: 6 Ω
- FM antenna terminal x 1
- AM antenna terminal x 1
- Audio output subwoofer terminal x 1
  500 mVrms/10 k Ω
- Optical digital input terminal x 1 (for connecting other equipment)
  -21 dBm to -15 dBm
- Audio input terminals (2) x 1 (for connecting other equipment)
  Level 1: 500 mV/50 k Ω
  Level 2: 250 mV/50 k Ω
- Audio output headphone terminal x 1
  11 mW/32 Ω (Impedance :16 Ω to 1 k Ω)

General
U.S.A. and Canada models
Power source: AC 120 V ∿, 60 Hz
Power consumption: 30 W (in operation)
0.8 W (on standby)
Post exchange models
Power source: AC 110 - 240 V ∿, 50 Hz/60 Hz
Power consumption: 30 W (in operation)
0.9 W (on standby)
Dimensions (W x H x D): 245 mm x 80 mm x 297 mm (9 11/16″ x 3 3/16″ x 11 3/4″)
Weight (1 unit): 2.7 kg (6.0 lbs)

Speakers (SP-EXA10)

Type: 2-way bass-reflex type
Magnetically shielded type
Tweeter: 2 cm (13/16″) wood dome
Woofer: 10.5 cm (4 3/16″) wood cone
Power handling capacity: 20 W
(Tweeter)
Power handling capacity: 30 W
(Woofer)
Impedance: 6 Ω
Sound pressure level: 82 dB/W•m
Dimensions (W x H x D): 143 mm x 257 mm x 243 mm (5 11/16″ x 10 1/8″ x 9 5/8″)
Weight (1 unit): 3.5 kg (7.8 lbs)

DVD player (XV-EXA10)

Playable DVDs/CDs
DVD VIDEO/DVD AUDIO
VCD/SVCD/CD
CD-R/RW (VCD/SVCD/CD/MP3/WMA/JPEG/DivX/ASF/MPEG1/MPEG2 format)
DVD-R (MP3/WMA/JPEG/DVD VIDEO/DVD VR [CPRM]/DivX/ASF/MPEG1/MPEG2 format)
DVD-RW (MP3/WMA/JPEG/DVD VIDEO/DVD VR [CPRM]/DivX/ASF/MPEG1/MPEG2 format)

Terminal
- Synchronization terminal x 1 (for connecting RX-EXA10)
- Optical digital output terminal x 1 (for connecting RX-EXA10)
  -21 dBm to -15 dBm
- Audio output terminals (2) x 1 (for connecting RX-EXA10)
- Composite video output terminal x 1
  1.0 Vp-p, sync negative, 75 Ω terminated
- S-video output terminal x 1
  Y: 1.0 Vp-p, sync negative, 75 Ω terminated
  C: 0.286 Vp-p, sync negative, 75 Ω terminated
- Component video output terminals (3)
  Y: 1.0 Vp-p, sync negative, 75 Ω terminated
  P_B: 0.7 Vp-p, 75 Ω terminated
  P_R: 0.7 Vp-p, 75 Ω terminated
- AV COMPU LINK terminal x 1

General
U.S.A. and Canada models
Power source: AC 120 V ∿, 60 Hz
Power consumption: 9 W (in operation)
0.5 W (on standby)
Post exchange models
Power source: AC 110 - 240 V ∿, 50 Hz/60 Hz
Power consumption: 9 W (in operation)
0.9 W (on standby)
Dimensions (W x H x D): 245 mm x 80 mm x 270 mm (9 11/16″ x 3 3/16″ x 10 11/16″)
Weight (1 unit): 2.2 kg (4.9 lbs)

Designs and specifications are subject to change without notice.

For U.S.A.

TO OUR VALUED CUSTOMER

THANK YOU FOR PURCHASING THIS JVC PRODUCT.

WE WANT TO HELP YOU ACHIEVE A PERFECT EXPERIENCE.

NEED HELP ON HOW TO HOOK UP?
NEED ASSISTANCE ON HOW TO OPERATE?
NEED TO LOCATE A JVC SERVICE CENTER?
LIKE TO PURCHASE ACCESSORIES?

JVC® IS HERE TO HELP!

TOLL FREE: 1(800)252-5722

http://www.jvc.com

Remember to retain your Bill of Sale for Warranty Service.

Do not attempt to service the product yourself

Caution
To prevent electrical shock, do not open the cabinet.
There are no user serviceable parts inside.
Please refer to qualified service personnel for repairs.

BT-51018-4
(0204)

For U.S.A.

JVC®

LIMITED WARRANTY

AUDIO-1 USA ONLY

ONLY FOR PRODUCT PURCHASED IN U.S.A.

JVC COMPANY OF AMERICA (JVC) warrants this product and all parts thereof, except as set forth below ONLY TO THE ORIGINAL RETAIL PURCHASER to be FREE FROM DEFECTIVE MATERIALS AND WORKMANSHIP from the date of original purchase for the period shown below. ("The Warranty Period")

PARTS	LABOR
1 YR	1 YR

THIS LIMITED WARRANTY IS VALID ONLY IN THE FIFTY (50) UNITED STATES, THE DISTRICT OF COLUMBIA AND IN THE COMMONWEALTH OF PUERTO RICO.

WHAT WE WILL DO:

If this product is found to be defective within the warranty period, JVC will repair or replace defective parts with new or rebuilt equivalents at no charge to the original owner. Such repair and replacement services shall be rendered by JVC during normal business hours at JVC authorized service centers. Parts used for replacement are warranted only for the remainder of the Warranty Period. All products may be brought to a JVC authorized service center on a carry-in basis. Color televisions with a screen size of 27" or greater qualify for in-home service. In such cases, a technician will come to your home and either repair the TV there or remove and return it if it cannot be repaired in your home.

WHAT YOU MUST DO FOR WARRANTY SERVICE:

Please do not return your product to the retailer

Instead, return your product to the JVC authorized service center nearest you. If shipping the product to the service center, please be sure to package it carefully, preferably in the original packaging, and include a brief description of the problem(s). Please call 1-800-252-5722 to locate the nearest JVC authorized service center. Service locations can also be obtained from our website http://www.jvc.com. If your product qualifies for in-home service, the service representative will require clear access to the product.

If you have any questions concerning your JVC Product, please contact our Customer Relations Department at 800-252-5722

WHAT IS NOT COVERED:

This limited warranty provided by JVC does not cover:

1. Products which have been subject to abuse, accident, alteration, modification, tampering, negligence, misuse, faulty installation, lack of reasonable care, or if repaired or serviced by anyone other than a service facility authorized by JVC to render such service, or if affixed to any attachment not provided with the products, or if the model or serial number has been altered, tampered with, defaced or removed;
2. Initial installation, installation and removal from cabinets or mounting systems.
3. Operational adjustments covered in the Owner's Manual, normal maintenance, video and audio head cleaning;
4. Damage that occurs in shipment, due to act of God, and cosmetic damage;
5. Signal reception problems and failures due to line power surge;
6. Video Pick-up Tubes/CCD Image Sensors are covered for 90 days from the date of purchase;
7. Accessories;
8. Batteries (except that Rechargeable Batteries are covered for 90 days from the date of purchase);
9. Products used for commercial purposes, including, but not limited to rental.

There are no express warranties except as listed above.

THE DURATION OF ANY IMPLIED WARRANTIES, INCLUDING THE IMPLIED WARRANTY OF MERCHANTABILITY, IS LIMITED TO THE DURATION OF THE EXPRESS WARRANTY HEREIN.

JVC SHALL NOT BE LIABLE FOR ANY LOSS OF USE OF THE PRODUCT, INCONVIENCE, OR ANY OTHER DAMAGES, WHETHER DIRECT, INCIDENTAL OR CONSEQUENTAL (INCLUDING, WITHOUT LIMITATION, DAMAGE TO TAPES, RECORDS OR DISCS) RESULTING FROM THE USE OF THIS PRODUCT, OR ARISING OUT OF ANY BREACH OF THIS WARRANTY. ALL EXPRESS AND IMPLIED WARRANTIES, INCLUDING THE WARRANTIES OF MERCHANTABILITY AND FITNESS FOR PARTICULAR PURPOSE, ARE LIMITED TO THE WARRANTY PERIOD SET FORTH ABOVE.

Some states do not allow the exclusion of incidental or consequential damages or limitations on how long an implied warranty lasts, so these limitations or exclusions may not apply to you. This warranty gives you specific legal rights and you may also have other rights which vary from state to state.

JVC COMPANY OF AMERICA
DIVISION OF JVC AMERICAS CORP.
1700 Valley Road
Wayne, NJ 07470
http://www.jvc.com

REFURBISHED PRODUCTS CARRY A SEPARATE WARRANTY, THIS WARRANTY DOES NOT APPLY. FOR DETAIL OF REFURBISHED PRODUCT WARRANTY, PLEASE REFER TO THE REFURBISHED PRODUCT WARRANTY INFORMATION PACKAGED WITH EACH REFURBISHED PRODUCT.

For customer use:

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

Model No. : _____ Serial No. : _____

Purchase date : _____ Name of dealer : _____

EX-A10 COMPACT COMPONENT SYSTEM

JVC

EN

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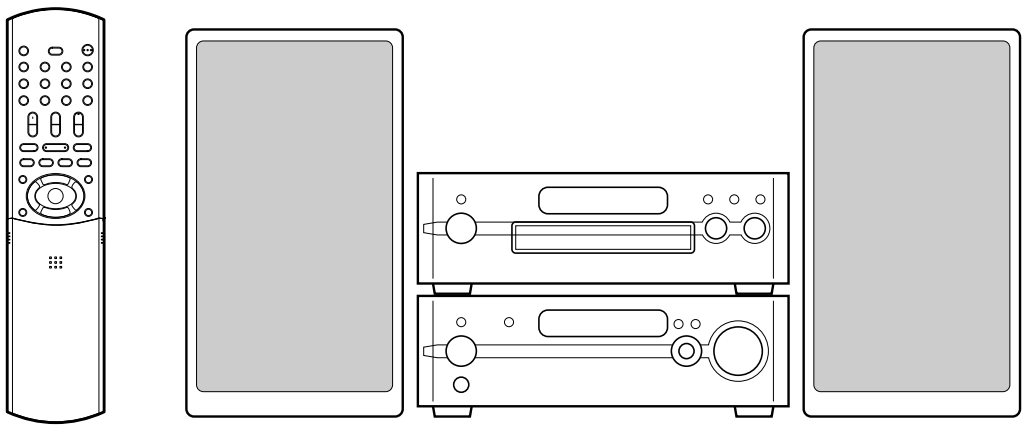
1005SKMMODJEM

JVC

COMPACT COMPONENT SYSTEM

EX-A10

Consists of RX-EXA10, SP-EXA10 and XV-EXA10



INSTRUCTIONS

LVT1403-004A
[B]

CAUTION

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

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

CAUTION – ⏻/I button!

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

The ⏻/I button in any position does not disconnect the mains line.

- When the system is on standby, the STANDBY lamp lights red.
- When the system is turned on, the STANDBY lamp goes off. The power can be remote controlled.

CAUTION

- Do not block the ventilation openings or holes. (If the ventilation openings or holes are blocked by a newspaper or cloth, etc., the heat may not be able to get out.)
- Do not place any naked flame sources, such as lighted candles, on the apparatus.
- When discarding batteries, environmental problems must be considered and local rules or laws governing the disposal of these batteries must be followed strictly.
- Do not expose this apparatus to rain, moisture, dripping or splashing and that no objects filled with liquids, such as vases, shall be placed on the apparatus.

IMPORTANT FOR LASER PRODUCTS

1. CLASS 1 LASER PRODUCT
2. **CAUTION:** Do not open the top cover. There are no user serviceable parts inside the unit; leave all servicing to qualified service personnel.
3. **CAUTION:** Visible and invisible laser radiation when open and interlock failed or defeated. Avoid direct exposure to beam.
4. REPRODUCTION OF LABEL: CAUTION LABEL, PLACED INSIDE THE UNIT.

CAUTION : Visible and invisible laser radiation when open and interlock failed or defeated. AVOID DIRECT EXPOSURE TO BEAM. (e)	**ADVARSEL :** Synlig og usynlig laserstråling når maskinen er åben eller interlocken fejler. Undgå direkte eksponering til stråling. (d)	**VARNING :** Synlig och osynlig laserstrålning när den öppnas och spärren är urkopplad. Betrakta ej strålen. (s)	**VARO :** Avattaessa ja suojalukitus ohitettuna tai viallisena olet alttiina näkyvälle ja näkymättömälle lasersäteilylle. Vältä säteen kohdistumista suoraan itseesi. (f)

CAUTION – Proper Ventilation

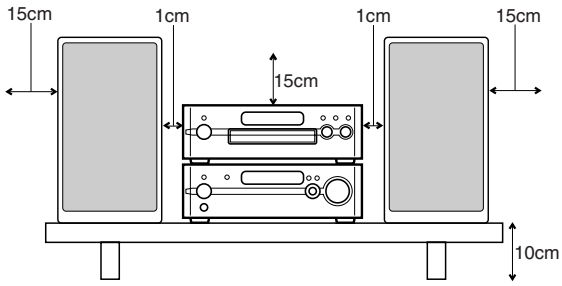
To avoid risk of electric shock and fire and to protect from damage, locate the apparatus as follows:

Top/Front/Back/Sides: No obstructions should be placed in the areas shown by the dimensions below.

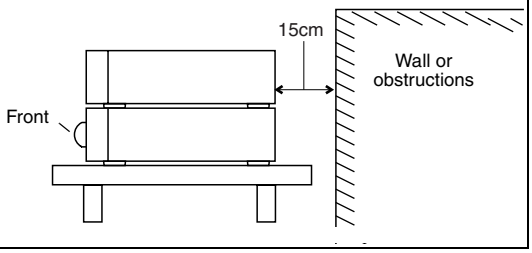
Bottom: Place on the level surface. Maintain adequate air path for ventilation by placing on a stand with a height of 10 cm more.

In addition, maintain the best possible air circulation.

Front view



Side view



IMPORTANT for the U.K.

DO NOT cut off the mains plug from this equipment. If the plug fitted is not suitable for the power points in your home or the cable is too short to reach a power point, then obtain an appropriate safety approved extension lead or consult your dealer.

BE SURE to replace the fuse only with an identical approved type, as originally fitted.

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

If this product is not supplied fitted with a mains plug then follow the instructions given below:

IMPORTANT:

DO NOT make any connection to the terminal which is marked with the letter E or by the safety earth symbol or coloured green or green-and-yellow.

The wires in the mains lead on this product are coloured in accordance with the following code:

Blue: Neutral
Brown: Live

As these colours may not correspond with the coloured markings identifying the terminals in your plug proceed as follows:

The wire which is coloured blue must be connected to the terminal which is marked with the letter N or coloured black.

The wire which is coloured brown must be connected to the terminal which is marked with the letter L or coloured red.

IF IN DOUBT - CONSULT A COMPETENT ELECTRICIAN.

Information for Users on Disposal of Old Equipment

Attention:
This symbol is only valid in the European Union.

[European Union]

This symbol indicates that the electrical and electronic equipment should not be disposed as general household waste at its end-of-life. Instead, the product should be handed over to the applicable collection point for the recycling of electrical and electronic equipment for proper treatment, recovery and recycling in accordance with your national legislation.

By disposing of this product correctly, you will help to conserve natural resources and will help prevent potential negative effects on the environment and human health which could otherwise be caused by inappropriate waste handling of this product. For more information about collection point and recycling of this product, please contact your local municipal office, your household waste disposal service or the shop where you purchased the product.

Penalties may be applicable for incorrect disposal of this waste, in accordance with national legislation.

(Business users)
If you wish to dispose of this product, please visit our web page www.jvc-europe.com to obtain information about the take-back of the product.

[Other Countries outside the European Union]
If you wish to dispose of this product, please do so in accordance with applicable national legislation or other rules in your country for the treatment of old electrical and electronic equipment.

SAFETY INSTRUCTIONS
“SOME DOS AND DON'TS ON THE SAFE USE OF EQUIPMENT”

This equipment has been designed and manufactured to meet international safety standards but, like any electrical equipment, care must be taken if you are to obtain the best results and safety is to be assured.

✲✲✲

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Supplied accessories

Check to be sure you have all of the supplied accessories.
The number in parentheses is the quantity of the items supplied. If anything is missing, contact your dealer immediately.

- Remote control (1)
- Batteries (2)
- FM antenna (1)
- AM loop antenna (1)
- Speaker cords (4)
- Audio cord (1)
- Optical digital cord (1)
- Synchronization cord (1)

CAUTION

- **Do not fold the optical digital cord as this may damage the inner wire.**

How to read this manual

- This manual explains the operations assuming that you will use the remote control. Some buttons on the receiver or the DVD player are the same as those on the remote control. You can use either button in this case.
- Some diagrams in this manual are simplified or exaggerated for the purpose of explanation.
- You can operate some functions differently from the explanation given in this manual.
- The following marks refer to the usable discs for the explained function.

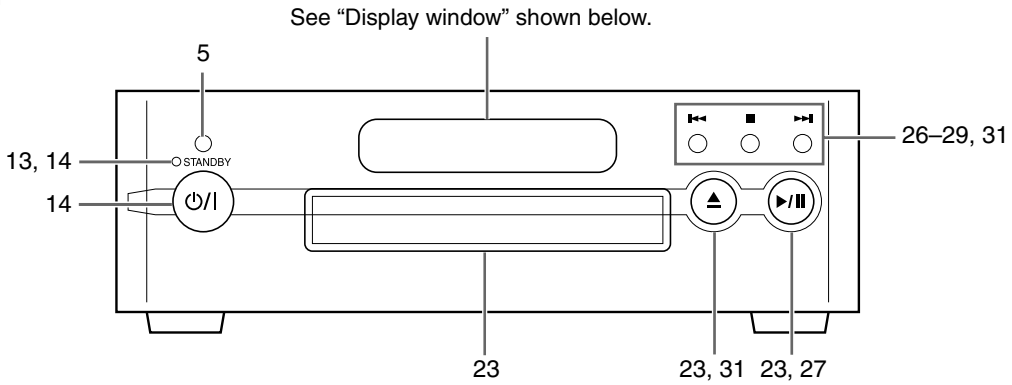
- "DVD VR" means a DVD recorded in DVD Video Recording (DVD VR) format.
- "VCD" stands for "Video Compact Disc".
- "SVCD" stands for "Super Video Compact Disc".
- An "ASF" disc means a disc recorded in "Advanced Systems Format".

Part description

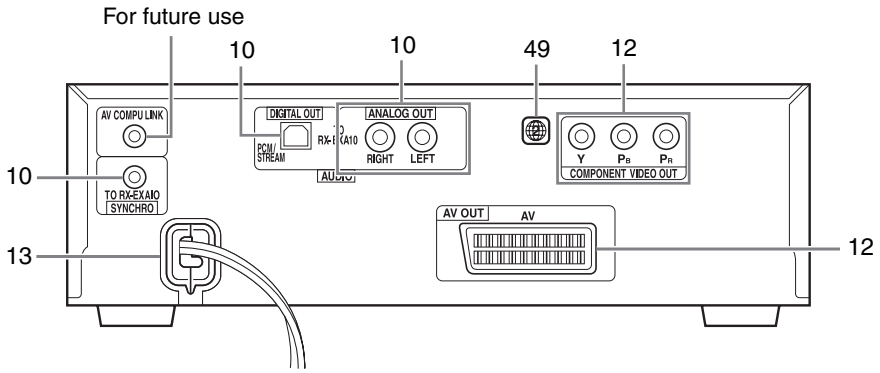
The numbers refer to the pages in which the parts are explained.

DVD player

Front panel

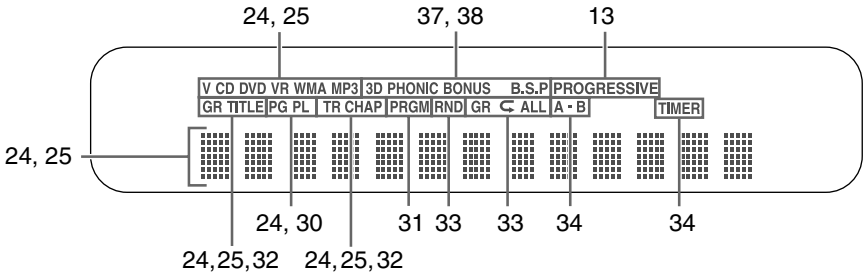


Rear panel



Display window

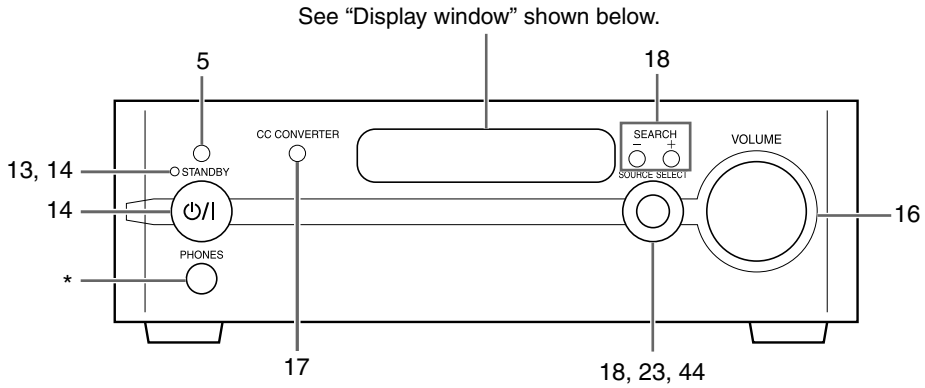
The receiver and the DVD player use the same design for their display windows.



The numbers refer to the pages in which the parts are explained.

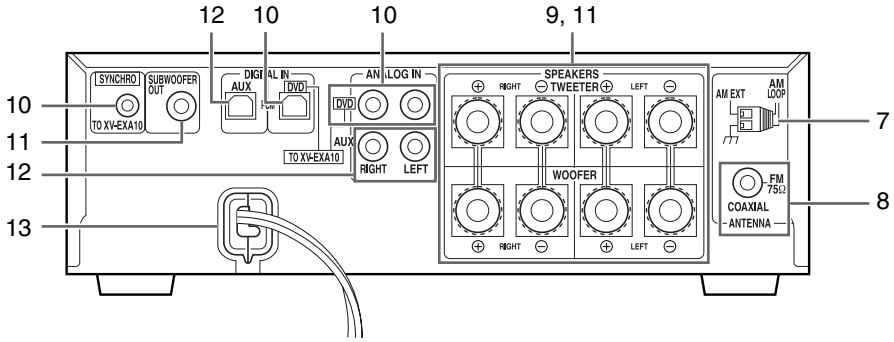
Receiver

Front panel



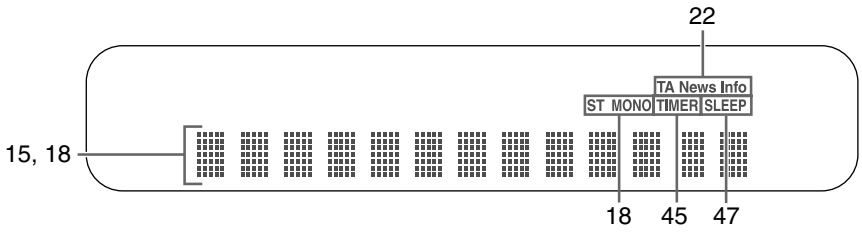
* This terminal is for connecting a pair of headphones equipped with a stereo plug (not supplied). When the headphones are connected, the speakers do not produce any sound.

Rear panel



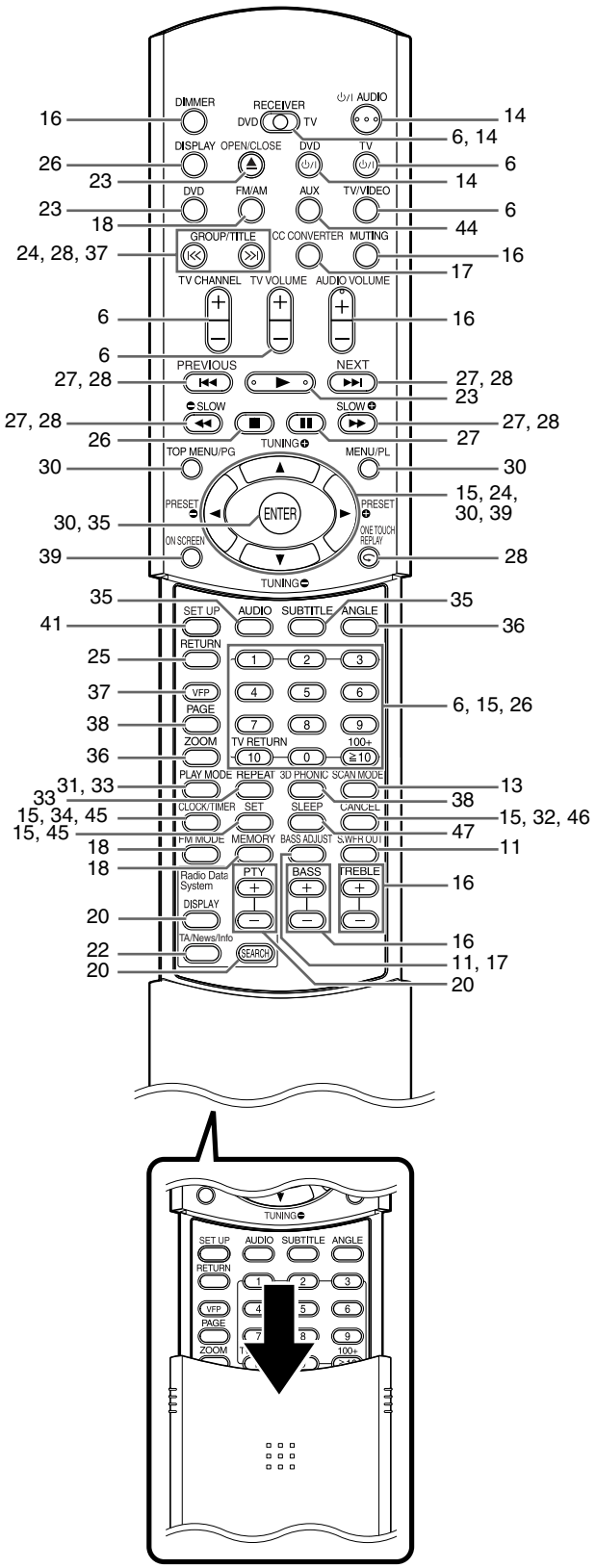
Display window

The receiver and the DVD player use the same design for their display windows.

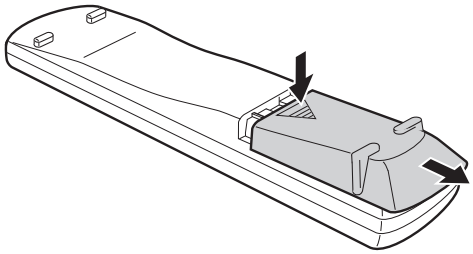


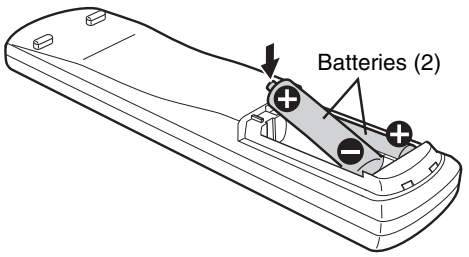
Using the remote control

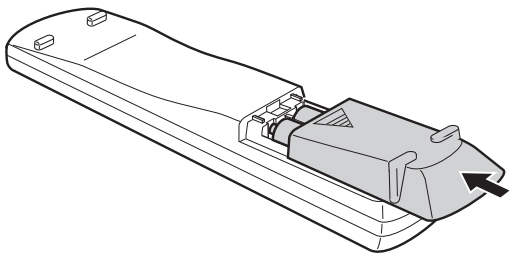
The numbers refer to the pages in which the parts are explained.



Inserting batteries into the remote control







If the effective distance between the remote control and remote control sensor on the receiver or the DVD player decreases, replace the batteries. Use two R6P (SUM-3)/AA(15F) type dry-cell batteries.

CAUTION

- **Do not use a used battery and a new battery together.**
- **Do not use different types of batteries at the same time.**
- **Take out the batteries if the remote control is not to be used for a long time. Otherwise it may cause a leakage.**

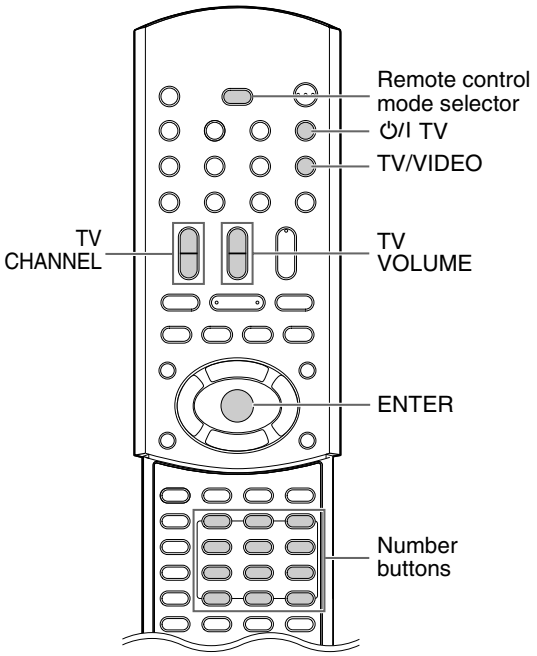
Remote control operation

When operating the remote control, point it at the front panel of the receiver or the DVD player. If the remote control is operated from a direction that is extremely oblique or when there is an obstacle in the way, signals may not be transmitted.

If the remote control sensor is exposed to a strong light such as direct sunlight, correct operation may not be carried out.

Operating the TV using the remote control

You can operate your TV using the remote control of this system.



Setting the manufacturer code

1 Slide the remote control mode selector to TV.

2 Hold down ⏻/I TV.

- Hold down ⏻/I **TV** until you finish step 4.

3 Press ENTER and release.

4 Press number buttons (1-9, 0).

- Refer to "Using the number buttons" (☞ page 15).

Examples:

For a Hitachi TV: Press 0, then 7.
For a Toshiba TV: Press 2, then 9.

When the manufacturer of your TV has two or more codes, select the manufacturer codes in turn and find the one that operates the TV and the remote control properly.

Manufacturer	Code	Manufacturer	Code
JVC	01	Nordmende	13, 14, 18, 26-28
Akai	02, 05	Okano	09
Blaupunkt	03	Orion	15
Daewoo	10, 31, 32	Panasonic	16, 17
Fenner	04, 31, 32	Philips	10
Fisher	05	Saba	13, 14, 18, 26-28
Grundig	06	Samsung	10, 19, 32
Hitachi	07, 08	Sanyo	05
Inno-Hit	09	Schneider	02, 05
Irradio	02, 05	Sharp	20
Magnavox	10	Sony	21-25
Mitsubishi	11, 33	Telefunken	13, 14, 18, 26-28
Miver	03	Thomson	13, 14, 18, 26-28, 30
Nokia	12, 34	Toshiba	29

NOTE

- *A manufacturer code is subject to change without notice. You may not be able to operate the TV produced by the manufacturer.*

5 Release ⏻/I TV.

Using the remote control for the TV operation

Operate the remote control by pointing it at the TV.

TV ⏻/I	Turns on/off the TV.	
TV CHANNEL + −	Changes the channels.	
TV VOLUME + −	Adjusts the volume.	
1 ~ 9 / 0 / 100+	RECEIVER DVD TV *1	Selects the channels.
TV RETURN	RECEIVER DVD TV *1	Switches the previously selected channel and the current channel.
TV/VIDEO	Switches the TV and video input.	

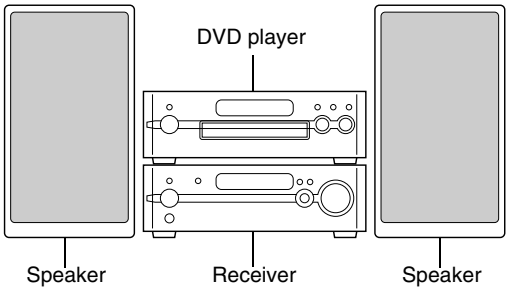
*1 Make sure to slide the remote control mode selector to **TV** in advance.

NOTE

- *After replacing the batteries of the remote control, set the manufacturer code again.*
- *When the remote control mode selector is slid to* **TV***, some buttons may not work.*

Do not turn on the power until you complete the connection.

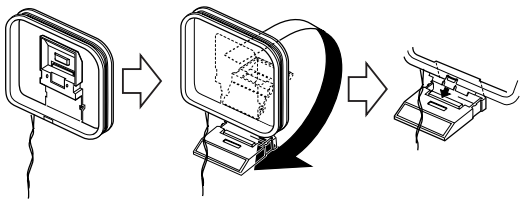
Standard setup



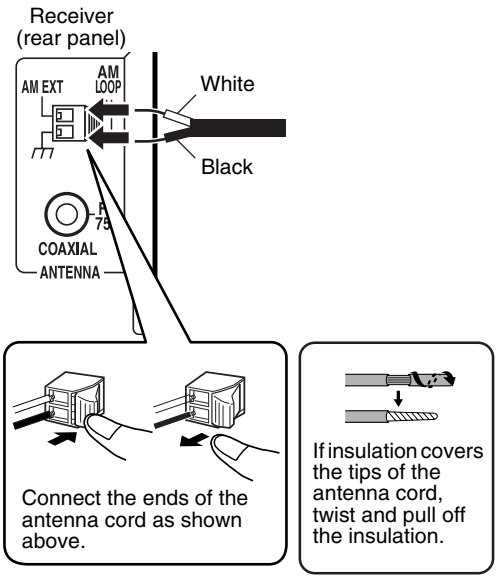
Connecting the antennas

Connecting the AM loop antenna (supplied)

1 Set up the AM loop antenna.



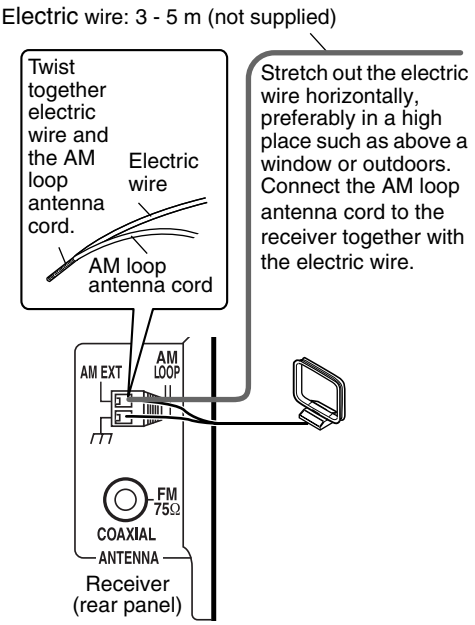
2 Connect the antenna cord.



3 Turn the AM loop antenna to find the best position for radio reception.
Place the AM loop antenna as far from the receiver as possible.

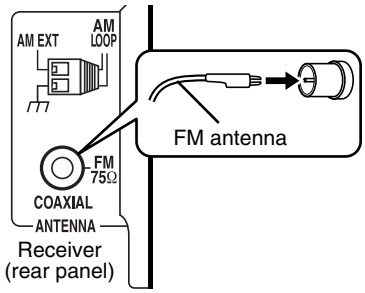
- Do not place the AM loop antenna on a metallic table or close to a TV, computer, or other electric appliances. Doing so may affect radio reception.

■ When radio reception with the supplied AM loop antenna is poor

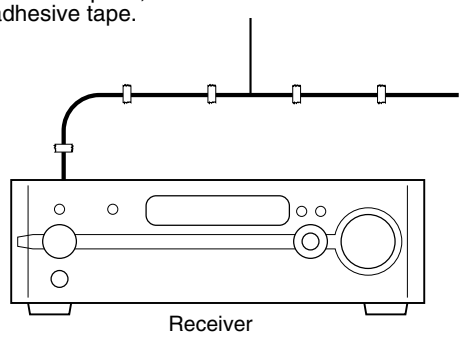


When positioning the antennas, find the best position for reception while listening to an actual radio program (refer to “Listening to radio broadcasts” (☞ page 18)).

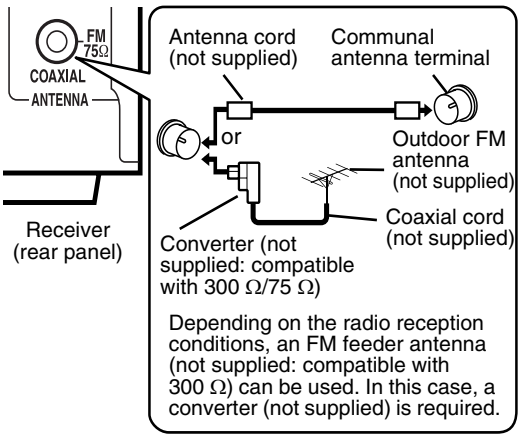
Connecting the FM antenna (supplied)



Stretch out the FM antenna to the best position for radio reception, and then fix the FM antenna with adhesive tape.



■ When radio reception with the supplied FM antenna is poor, or when using a communal antenna



When using an antenna other than those supplied with this system, refer to the operation manuals for the antenna and converter for details of connection.

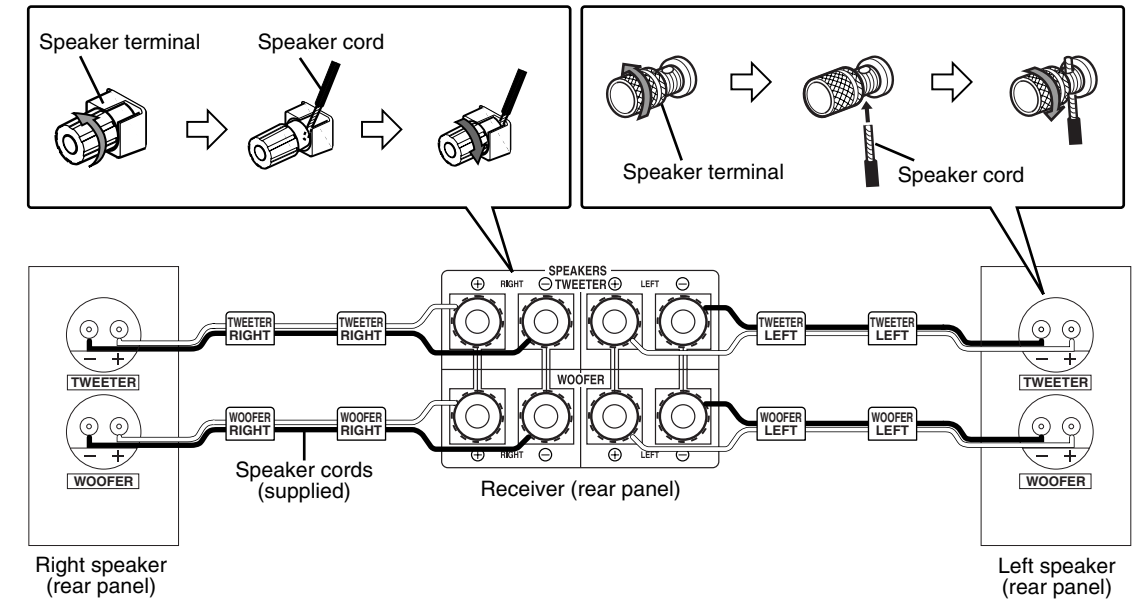
When positioning the antennas, find the best position for reception while listening to an actual radio program (refer to “Listening to radio broadcasts” (☞ page 18)).

Do not turn on the power until you complete the connection.

Connecting the speakers

There is no difference between the left and right speakers.

Before connecting the speaker cords, twist and pull off the insulation.



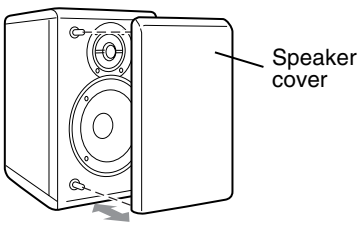
- An incorrect connection may damage the speakers.
- The supplied speakers are dedicated to the supplied receiver as parts of the EX-A10 system. Do not connect the supplied speakers to equipment other than the supplied receiver. Doing so may damage the speakers.

CAUTION

- **Do not short-circuit the ⊕ and ⊖ speaker terminals. Doing so may damage the receiver.**
- **Do not connect other speakers together with the supplied speakers. The change in impedance may damage the receiver and the speakers.**
- **Improper speaker cord connection spoils the stereo effect and sound quality.**
- **The supplied speakers are magnetically shielded, but color irregularity may occur on the TV depending on some conditions. To prevent color irregularity, set up the speakers following the instructions below.**
  1. **Turn off the main power of the TV before setting up the speakers.**
  2. **Place the speakers enough distance from the TV so that they do not cause color irregularity on the TV.**
  3. **Wait for about 30 minutes before turning on the main power of the TV again.**

The speakers employ natural wood for the diaphragm and the cabinet in order to reproduce the original sound faithfully. The appearance will therefore be different for each system.

You can detach the speaker cover.

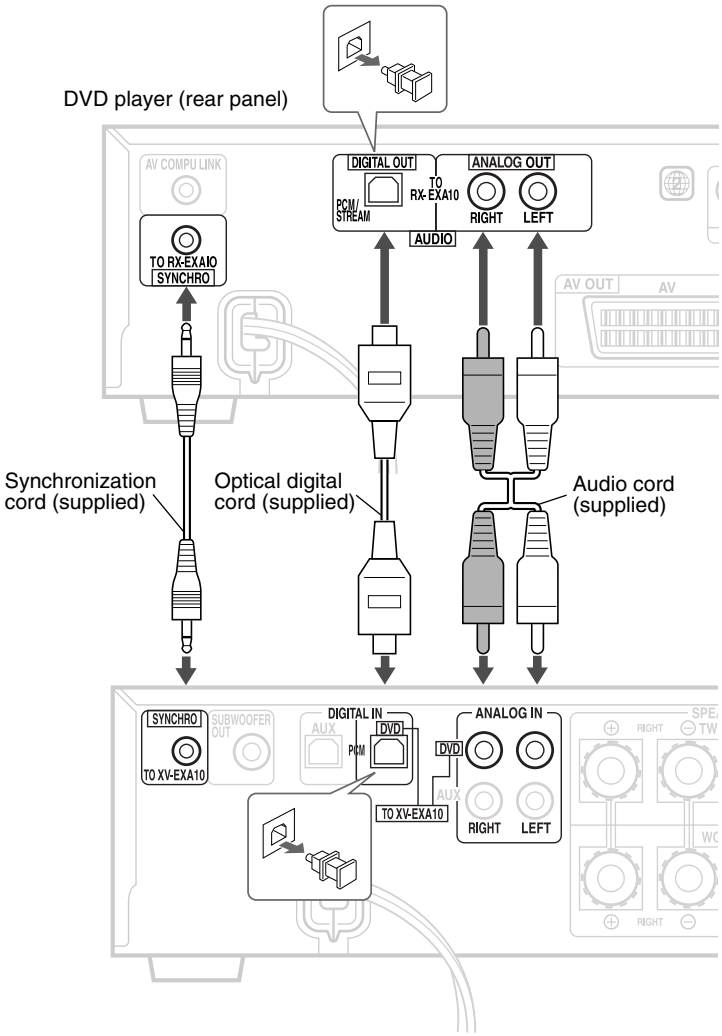


NOTE

- *To allow the receiver and the DVD player to emit generated heat, leave a space of at least 1 cm between the receiver or the DVD player and the speakers or other objects.*

Connecting the receiver and the DVD player

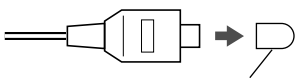
Make sure to connect the three supplied cords.



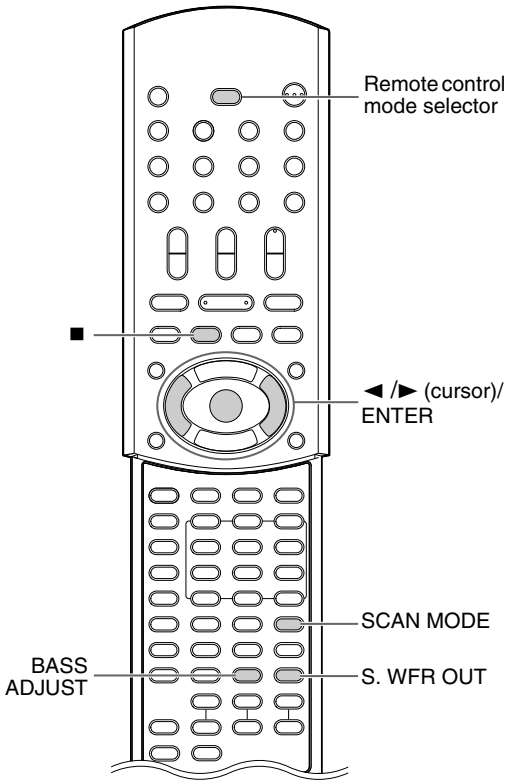
CAUTION

- **Do not fold the optical digital cord as this may damage the inner wire.**

If protection caps cover the tips of the optical digital cord, pull off the protection caps before connecting.



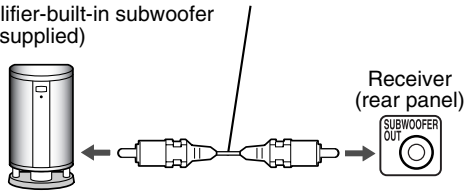
Connecting other equipment



Connecting the subwoofer

When you connect this system with an amplifier-built-in subwoofer (not supplied), you can enjoy a more dynamic bass sound. Refer to the manual of the subwoofer for details.

Audio cord (not supplied)
(If an audio cord comes with the amplifier-built-in subwoofer, you can use the audio cord.)



To produce sound from the subwoofer, press **S.WFR OUT** on the remote control to display "S. WOOFER ON" (Subwoofer on) in the display window on the receiver. Each time you press **S.WFR OUT**, the display toggles between "S. WOOFER ON" and "S. WOOFER OFF".

NOTE

- *When "S. WOOFER ON" is selected, bass sound from the left and right speakers will be automatically turned down and the bass sound will be emitted mainly from the subwoofer.*

Connecting other speakers

To connect speakers other than the ones supplied, follow the operations shown below.

1 Slide the remote control mode selector to RECEIVER.

2 Connect the speakers to the SPEAKERS WOOFER LEFT and RIGHT terminals on the receiver.

3 Hold down BASS ADJUST for 2 or more seconds.

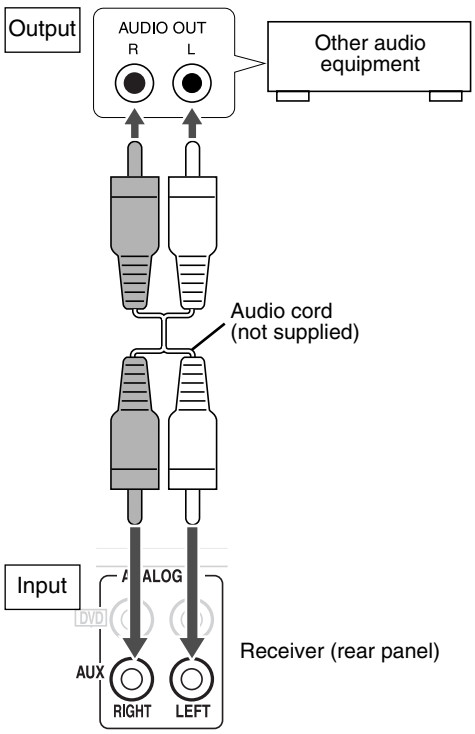
- "Single Amp" is displayed in the display window on the receiver, and no audio signal is sent to the SPEAKERS TWEETER LEFT and RIGHT terminals.

Display on the receiver

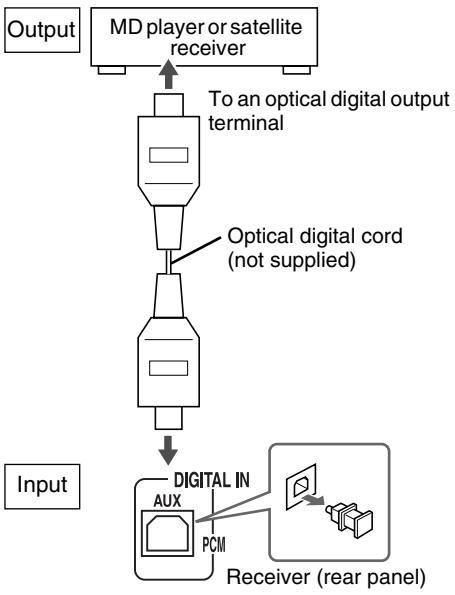
NOTE

- *The impedance of speakers connected to this system must be within the range 6 Ω to 16 Ω.*
- *When connecting the supplied speakers to the receiver, hold down* **BASS ADJUST** *on the remote control for 2 or more seconds once again to select "Bi-Amp" in the display window on the receiver.*

Connecting other audio equipment

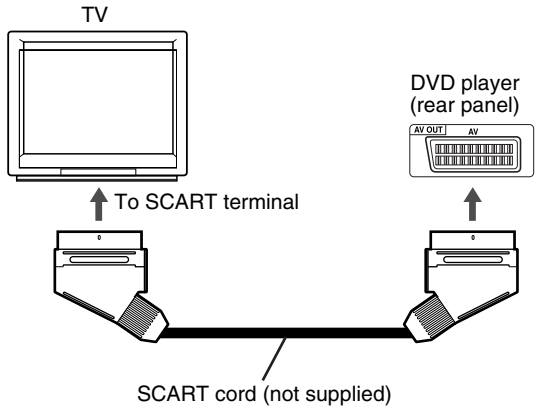


Connecting digital equipment with an optical output terminal

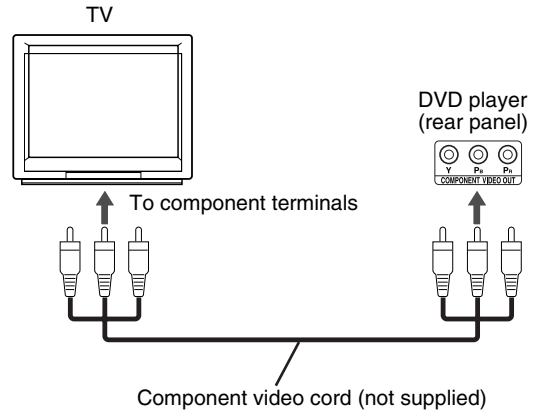


Connecting a TV

Connecting a TV with the AV OUT terminal



Connecting a TV with the COMPONENT VIDEO OUT terminals



After connecting the DVD player to the TV, select the video signal type correctly according to the TV.

1 Slide the remote control mode selector to DVD.

2 Make sure that playback stops. (If a disc is being played back, press ■ to stop playback.)

(Continued on the next page)

Do not turn on the power until you complete the connection.

For the locations of the remote control buttons, refer to page 11.

3 Press SCAN MODE.

- The current video signal type will flash.

4 Press ◄, ► (cursor) or SCAN MODE repeatedly to select the video signal type suitable for the TV.

- You can select “RGB”, “Y/C” or “PROGRESSIVE”.
- Select “RGB” when a TV compatible with composite video signals is connected to the AV OUT terminal.
- Select “Y/C” when a TV compatible with S-video signals is connected to the AV OUT terminal.
- Select “PROGRESSIVE” when a TV compatible with progressive scanning is connected to the COMPONENT VIDEO OUT terminals.

5 Press ENTER.

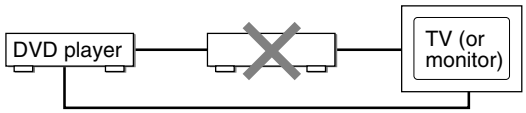
- The selected video signal type is displayed for a short time.

NOTE

- *Even if the power cord of the DVD player is disconnected from the AC outlet or the power is interrupted, the video signal type setting is stored.*

CAUTION

- **Connect the DVD player directly to a TV (or a monitor) without routing through a video cassette recorder (VCR). Otherwise picture distortion may occur during playback.**

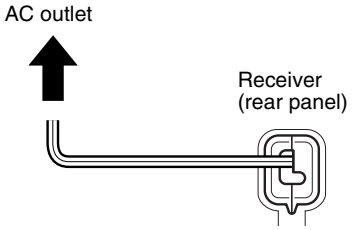


Direct connection

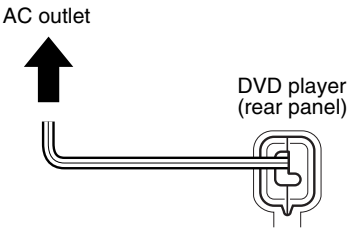
- **Connecting the DVD player to a VCR-built-in-TV may also cause picture distortion during playback.**

Connecting the power cords

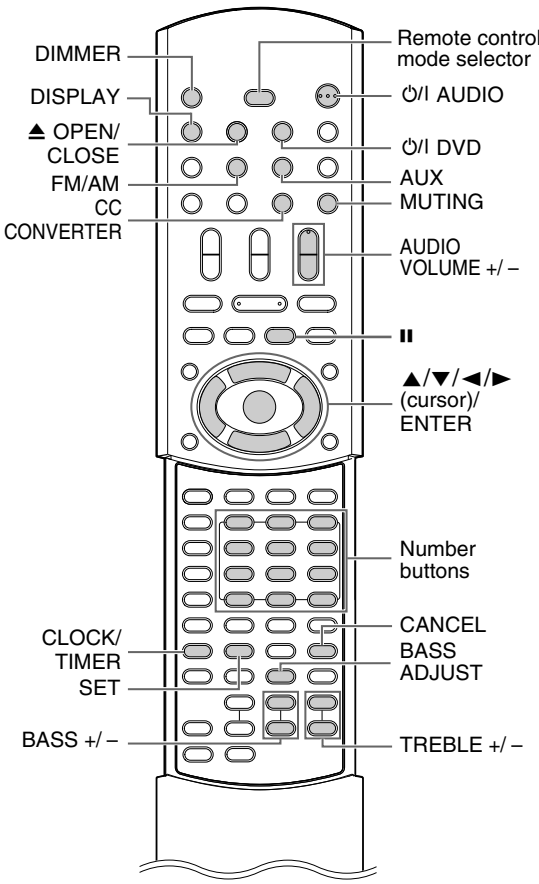
Receiver



DVD player



- Connect the power cords after you complete the other connections.
- The STANDBY lamps on the front panels of the receiver and the DVD player will light up.



Turning on/off the system

Receiver

1 **Slide the remote control mode selector to RECEIVER.**

2 **Press ⏻/I AUDIO (or ⏻/I on the receiver).**

- The power of the receiver will turn on and the STANDBY lamp on the receiver will turn off.
- Press ⏻/I **AUDIO** again to turn off the power of the receiver.
- With the power off, pressing any of the following buttons also turns on the receiver.
  - **DVD**, **FM/AM** or **AUX** on the remote control
  - ►/II on the DVD player

  The function assigned to the button starts working at the same time.

DVD player

1 **Slide the remote control mode selector to DVD.**

2 **Press ⏻/I DVD (or ⏻/I on the DVD player).**

- The power of the DVD player will turn on and the STANDBY lamp on the DVD player will turn off.
- Press ⏻/I **DVD** again to turn off the power of the DVD player.
- With the power off, pressing any of the following buttons also turns on the DVD player.
  - **DVD** or ⏏ **OPEN/CLOSE** on the remote control
  - ⏏ or ►/II on the DVD player

  The function assigned to the button starts working at the same time.
  (When you press **DVD** on the remote control or ►/II on the DVD player, if a disc has been loaded, playback starts automatically.)

Setting the clock

You can set the clock when the receiver is turned either on or off.

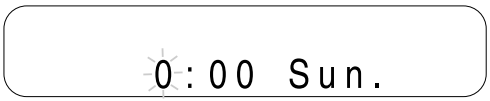
Example:

To set the clock to 10:30 a.m. on Wednesday

1 Slide the remote control mode selector to RECEIVER.

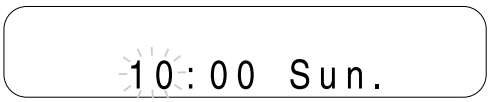
2 Press CLOCK/TIMER.

Display on the receiver

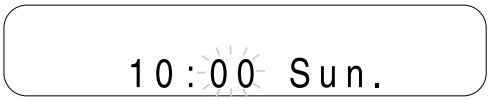


3 Press ◄ or ► (cursor) to select the hour.

- Hold down the button to incrementally increase the hour setting.
- You can also use the number buttons to specify the hour. Refer to “Using the number buttons” shown on the right.



4 Press SET.



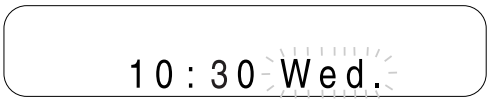
5 Press ◄ or ► (cursor) to select the minute.

- Hold down the button to incrementally increase the minute setting.
- You can also use the number buttons to specify the minute. Press **SET**.

6 Press SET.

7 Press ◄ or ► (cursor) to select the day of the week.

- Hold down the button to change the setting for the day of the week.



- Abbreviations are used for the days of the week.
  Sun. → Sunday
  Mon.→ Monday
  Tue. → Tuesday
  Wed.→ Wednesday
  Thu. → Thursday
  Fri. → Friday
  Sat. → Saturday

8 Press SET.

- The clock starts from 0 seconds in the minute you set.

NOTE

- *While setting the clock, you can return to the previous step by pressing* **CANCEL**.
- *The time display on the receiver is a 24-hour clock.*
- *The clock will gain or lose about 1 minute per month.*
- *If the power cord of the receiver is disconnected from the AC outlet or the power is interrupted, the clock setting is stored for about 1 minute.*
- *You cannot set the clock when “DISPLAY OFF” is selected. (☞ page 16)*

Adjusting the clock

Press CLOCK/TIMER twice to display the clock, and then adjust the clock starting from step 3.

Displaying the clock when using the receiver

Press DISPLAY.

- Refer to “Changing the display in the display window”. (☞ page 26)

Using the number buttons

Examples:

5: (5)

15: (≧10) → (1) → (5)

150: (≧10) → (≧10) → (1) → (5) → (0)

Dimmer

Changing the brightness of the display windows on the receiver and the DVD player

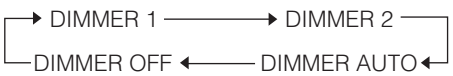
You can set the brightness of the display windows on the receiver and the DVD player respectively.

■ **When the receiver/DVD player is turned on**

1 **Slide the remote control mode selector to RECEIVER or DVD.**

2 **Press DIMMER repeatedly.**

- Each time you press **DIMMER**, the setting changes on the receiver/DVD player.



- For a disc containing video, when you select “DIMMER AUTO”, “DIMMER 2” is automatically selected during video playback and is canceled when the playback stops.
- For a disc containing no video, when you select “DIMMER AUTO”, “DIMMER OFF” is automatically selected during playback and is canceled when the playback stops.

Turning off the display on the receiver

You can also turn off the display on the receiver when the receiver is turned off.

■ **When the receiver is turned off**

1 **Slide the remote control mode selector to RECEIVER.**

2 **Press DIMMER repeatedly.**

- Each time you press **DIMMER**, the setting changes on the receiver.
  DISPLAY ON ⟷ DISPLAY OFF

Adjusting the volume

1 **Slide the remote control mode selector to RECEIVER.**

2 **Press AUDIO VOLUME +/–.**

- The volume can also be adjusted by turning the VOLUME control on the receiver.

Turning off the sound temporarily (MUTING)

1 **Slide the remote control mode selector to RECEIVER.**

2 **Press MUTING.**

- No sound will come out from the speakers, headphones and the subwoofer.
- Press **MUTING** again to restore the sound. When the power is turned off once and turned on again, the sound will also be restored.

Adjusting the sound quality

1 **Slide the remote control mode selector to RECEIVER.**

2 **Bass: Press BASS +/–.**
Treble: Press TREBLE +/–.

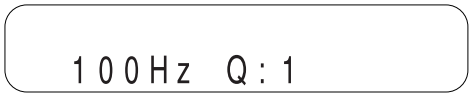
For the locations of the remote control buttons, refer to page 14.

Adjusting the bass sound

1 **Slide the remote control mode selector to RECEIVER.**

2 **Press BASS ADJUST.**

Display on the receiver



3 **While the selectable values are flashing, press ◄ or ► (cursor) to select the value of the bass frequency.**

- You can select “100 Hz”, “120 Hz” or “140 Hz”.
- The initial setting is “100 Hz”. Select the value for your desired bass sound.

4 **While the selectable values are flashing, press ▲ or ▼ (cursor) to select the value of “Q” in the display window.**

- You can select “0.75”, “1” or “1.25”.
- The initial setting is “1”. Select the value for your desired bass sound.

5 **Press ENTER.**

- The selected values are displayed for a short time.

NOTE

- *The adjustment of the bass sound does not change the treble and bass sound level adjustments.*

Enhancing the playback sound (CC CONVERTER)

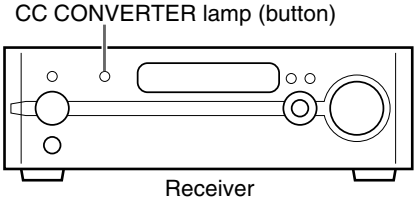
The CC CONVERTER function is designed to provide natural sound by improving the playback sound from low-bit-rate digital sources.

The function compensates for sound waves dissipated during digital recording compression to approximate the original analog sound. Sound is reproduced with more bits (24 bit) and a wider range of frequency (128 kHz, 176.4 kHz or 192 kHz).

1 **Slide the remote control mode selector to RECEIVER.**

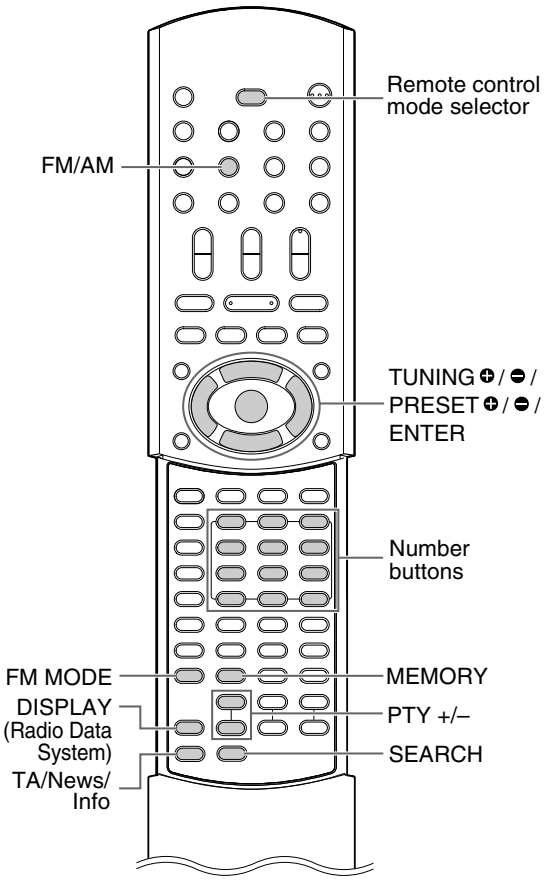
2 **Press CC CONVERTER.**

- When the CC CONVERTER function is activated, the CC CONVERTER lamp (button) on the front panel of the receiver lights up.
- Each time you press **CC CONVERTER**, the display changes as follows.
  - “CC CNVRTR 1”:
    Plays back a digital source with non-compressed sound signals (linear PCM).
  - “CC CNVRTR 2”:
    Plays back a digital source with compressed sound signals (Dolby digital, DTS, MP3 or WMA).
  - “CC CNVRTR OFF”:
    Cancels the CC CONVERTER function.



NOTE

- *The initial setting is “CC CNVRTR 1”.*
- *The CC CONVERTER function does not work when analog sound is selected as the sound source or when 3D PHONIC is activated (☞ page 38). In such cases, pressing* **CC CONVERTER** *only displays “ANALOG SOURCE”.*
- *The original range of frequency is automatically detected and extended to a specific range. When the original range is 32 kHz, 44.1 kHz or 48 kHz, the range is extended to 128 kHz, 176.4 kHz or 192 kHz respectively.*



Selecting a radio station

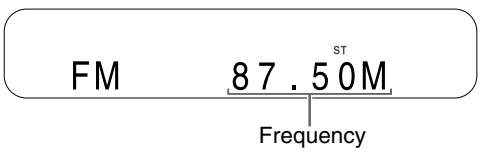
This receiver can receive FM and AM radio broadcasts.

1 Slide the remote control mode selector to RECEIVER.

2 Press FM/AM to select "FM" or "AM".

- Pressing **FM/AM** selects a radio broadcast as the sound source.
- You can also use **SOURCE SELECT** on the receiver to select a radio broadcast as the sound source.
- Each time you press **FM/AM**, the band will toggle between "FM" and "AM".

Example:
Display on the receiver



3 Press TUNING ⊕ or TUNING ⊖ repeatedly to select a radio station (frequency).

- When the receiver has received an FM stereo broadcast, "ST" (stereo) indicator lights up.
- You can also select a radio station using the automatic tuning.

Automatic tuning:
Hold down **TUNING ⊕** or **TUNING ⊖** until the frequency starts changing, and then release the button.
When the receiver has received a broadcast, the frequency automatically stops changing.
To quit the function while searching for a broadcast, press **TUNING ⊕** or **TUNING ⊖** .

NOTE

- *Pressing* **SEARCH –** *or* **SEARCH +** *on the receiver also enables you to select the radio station.*
- *If an FM stereo broadcast is difficult to hear because of noise, you may be able to hear the broadcast more easily by pressing* **FM MODE** *to switch the sound to monaural reception. In this case, "MONO" lights up. To return the sound to stereo reception, press* **FM MODE** *again.*

Tuning in to a preset radio station

Presetting radio stations in the receiver allows you to easily tune in to a radio station.

Presetting radio stations

You can store up to 30 FM radio stations and up to 15 AM radio stations.

1 Select a radio station you want to store (☞ "Selecting a radio station").

2 Press MEMORY.

- The preset number flashes in the display window on the receiver for about 5 seconds.

(Continued on the next page)

3 While the preset number is flashing, press PRESET ⊕ or PRESET ⊖ to select the preset number you want to use.

- You can also select the preset number by using the number buttons. (Refer to "Using the number buttons". (☞ page 15))

4 Press MEMORY or ENTER while the selected number is flashing.

- "STORED" will appear and the selected radio station will be stored.

NOTE

- *When you store a radio station to a preset number to which another radio station has previously been stored, the newly set radio station replaces the previously stored radio station.*

Tuning in to a preset radio station

1 Slide the remote control mode selector to RECEIVER.

2 Press FM/AM repeatedly to select "FM" or "AM".

3 Press the number buttons to select the preset number of the radio station to which you want to tune in.

- Refer to "Using the number buttons" (☞ page 15).

Radio Data System

Receiving FM radio broadcasts with Radio Data System

Radio Data System allows FM radio stations to send an additional signal along with their regular program signals.

For example, a radio station send its radio station name or information on the types of broadcasted programs such as sports or music.

You can receive the following types of Radio Data System signals.

PS (Program Service):
Shows commonly known radio station names.

PTY (Program Type):
Shows types of broadcasted programs.

RT (Radio Text):
Shows text messages sent by the radio station.

Enhanced Other Networks:
☞ page 22

NOTE

- *Radio Data System may not work correctly if the radio station is not transmitting the signals properly or if the signal is weak.*

Alarm function
If an "Alarm !" (Emergency) signal is received from a radio station while you are listening to an FM radio broadcast with Radio Data System, the receiver automatically switches to the radio broadcast sending the "Alarm !" signal.
(No AM and only some FM radio stations send broadcasts with Radio Data System.)

Changing the Radio Data System information

You can refer to Radio Data System information in the display window on the receiver while listening to an FM radio broadcast.

■ When listening to an FM radio broadcast

1 Slide the remote control mode selector to RECEIVER.

2 Press DISPLAY (Radio Data System) repeatedly.

PS (Program Service):
While the receiver is searching for Radio Data System information, “WAIT PS” appears and then the radio station names will be displayed. “NO PS” appears if no signal is received.

PTY (Program Type):
While the receiver is searching for Radio Data System information, “WAIT PTY” appears and then the type of the broadcasted program will be displayed. “NO PTY” appears if no signal is received.

RT (Radio Text):
While the receiver is searching for Radio Data System information, “WAIT RT” appears and then text messages sent by the radio station will be displayed. “NO RT” appears if no signal is received.

NOTE

- *If the receiver takes time to show the Radio Data System information received from a radio station, “PS”, “PTY” or “RT” may appear in the display window on the receiver.*
- *When PS, PTY or RT signals appear in the display window on the receiver, irregular characters and marks may not be displayed correctly.*

Searching for programs by PTY codes (PTY search)

You can locate a type of radio program by specifying the corresponding PTY code.

- The PTY search is applicable only to the preset radio stations.

■ When an FM radio broadcast is selected as the sound source

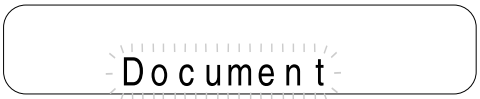
1 Slide the remote control mode selector to RECEIVER.

2 Press SEARCH.

Display on the receiver

3 Press PTY + or PTY – repeatedly to select a PTY code while “PTY SELECT” is flashing.

Example:
When “Document” is selected as a PTY code

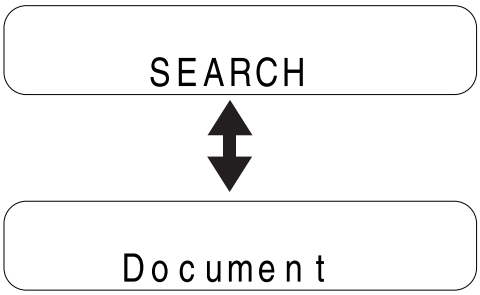


- Refer to page 21 for the PTY codes.

4 Press SEARCH.

- While the receiver is searching for a radio program, “SEARCH” and the selected PTY codes will be displayed.

Example:
When “Document” is selected as a PTY code



- The receiver searches 30 preset FM radio stations, and stops when the receiver finds the one you have selected. At this time the selected frequency and PTY code flash. When **SEARCH** is pressed while the selected frequency and PTY code are flashing, the receiver automatically starts searching for the next radio station. After the frequency and PTY code stop flashing or if a button is pressed, the receiver automatically tunes in to the radio station.
- To stop searching, press **SEARCH**.
- If no program is found, “NOT FOUND” appears in the display window on the receiver and the receiver returns to the last received radio station.

PTY codes:

None:	Undefined.
News:	News.
Affairs:	Topical program expanding or enlarging upon news-debate or analysis.
Info:	Programs the purpose of which is to impart advice in the widest sense.
Sport:	Programs concerned with any aspect of sports.
Educate:	Educational programs.
Drama:	All radio plays and serials.
Culture:	Programs concerning any aspect of nationalor regional culture, including language and theater.
Science:	Programs about natural sciences and technology.
Varied:	Used for mainly speech-based programs such as quizzes, panel games and personality interviews.
Pop M:	Commercial music of current popular appeal.
Rock M:	Rock music.
Easy M:	Current contemporary music considered to be “easy-listening”.
Light M:	Instrumental music, and vocal or choral works.
Classics:	Performances of major orchestral works, symphonies and chamber music.
Other M:	Music not fitting into any of the other categories.
Weather:	Weather reports and forecasts.
Finance:	Stock market reports, commerce and trading.
Children:	Programs targeted at a young audience.
Social:	Programs about sociology, history, geography, psychology and society.
Religion:	Religious programs.
Phone In:	Involving members of the public expressing their views either by phone or at a public forum.
Travel:	Travel information.
Leisure:	Programs about recreational activities.
Jazz:	Jazz music.
Country:	Songs which originate from, or continue the musical tradition of the American Southern States.
Nation M:	Current popular music of the nation or region.
Oldies:	Music from the so-called “golden age” of popular music.
Folk M:	Music which has its roots in the musical culture of a particular nation.
Document:	Programs concerning factual matters, presented in an investigative style.
TEST:	Broadcasts for testing emergency broadcast equipment or receiver.
Alarm !:	Emergency announcement.

Classification of the PTY codes for some FM radio stations may be different from the list shown above.

Switching to a program type of your choice temporarily

The Enhanced Other Networks function allows the receiver to switch temporarily to a broadcast program of your choice (TA, News, or Info) from a different radio station when you are listening to a Radio Data System radio station.

- Enhanced Other Networks function is applicable only to the preset radio stations.

1 Slide the remote control mode selector to RECEIVER.

2 Press TA/News/Info repeatedly until the indicator of your desired program type (TA/News/Info) appears in the display window on the receiver.

- Each time you press **TA/News/Info**, the indicator in the display window changes.

Example:
Display on the receiver

TA: Traffic announcement
News: News
Info: Programs the purpose of which is to impart advice in the widest sense.

NOTE

- *To cancel the Enhanced Other Networks function, press* **TA/News/Info** *repeatedly until the program type indicator (TA/News/Info) turns off in the display window on the receiver. Changing the sound source or turning off the receiver also cancels the Enhanced Other Networks function.*
- *The Enhanced Other Networks data sent from some radio stations may not be compatible with this receiver.*
- *While listening to a program tuned in with the Enhanced Other Networks function, the radio station does not change even if another network radio station starts broadcasting the same Enhanced Other Networks program.*
- *While listening to a program tuned in with the Enhanced Other Networks function, you can only use* **TA/News/Info** *and* **DISPLAY (Radio Data System)** *as the tuner operation buttons. If you press any other button, "LOCKED!" appears in the display window on the receiver.*
- *If the radio stations toggle intermittently between the radio station tuned in to by the Enhanced Other Networks function and the currently tuned radio station, press* **TA/News/Info** *to cancel the Enhanced Other Networks function.*

How the Enhanced Other Networks function actually works:

CASE 1

If there is no radio station broadcasting the program you have selected:

The receiver continues tuning in to the current radio station.

↓

When a radio station starts broadcasting the program you have selected, the receiver automatically switches to the radio station. The program type starts flashing in the display window.

↓

When the program is over, the receiver goes back to the previously tuned radio station, but the Enhanced Other Networks function still remains activated.

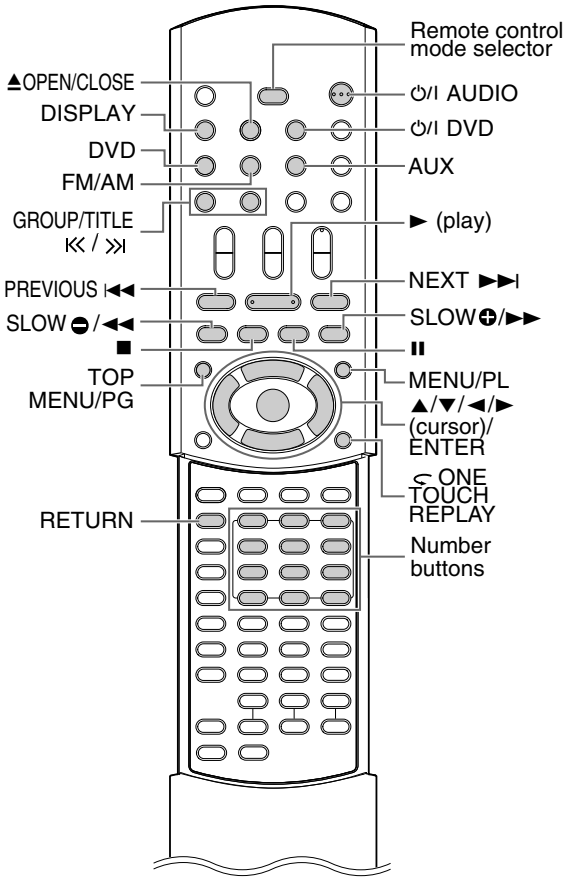
CASE 2

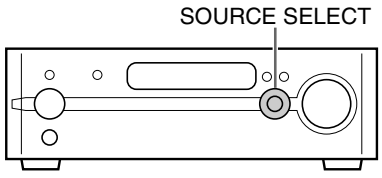
If there is a radio station broadcasting the program you have selected:

The receiver tunes in to the program.The program type starts flashing in the display window.

↓

When the program is over, the receiver goes back to the previously tuned radio station, but the Enhanced Other Networks function still remains activated.





Receiver

Playing back a DVD/CD

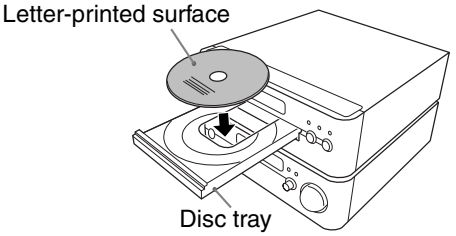
DVD VIDEO DVD AUDIO DVD VR VCD SVCD CD

1 Slide the remote control mode selector to DVD.

2 Press ⏏ OPEN/CLOSE.

- The disc tray ejects.

3 Place a disc.



- To listen to an 8 cm disc, place it on the inner hollow of the disc tray.

4 Press ► (play) or DVD.

NOTE

- *You can also use* **SOURCE SELECT** *on the receiver to select a loaded disc as the sound source.*
- *A menu screen may be displayed after starting playback of a DVD. In this case, select a desired item to playback by using the following buttons on the remote control.*
  - *Select a desired item using ▲/▼/◄/►(cursor) and press* **ENTER**.
  - *You can also select a desired item using the number buttons. Refer to "Using the number buttons" (☞ page 15).*
- *When a DVD AUDIO is played back, signals are converted into analog signals. Beginning playback of a DVD AUDIO displays "DVD-ANALOG" for a short time. When you take the disc out of the disc tray, the display returns to "DVD-DIGITAL" automatically.*
- *When using a DVD player other than the supplied XV-EXA10, select "DVD-DIGITAL" playback or "DVD-ANALOG" playback according to your usage. Each time you hold down* **DVD**, *the playback changes among "DVD-DIGITAL", "DVD-ANALOG" and "DVD-AUTO". Return to the initial setting ("DVD-AUTO") when using the XV-EXA10.*
- *Depending on the disc, the actual operation may be different from the description.*
- *When you select a source other than a DVD during playback, the loaded disc stops automatically, and "DVD OFF" is displayed in the display window on the DVD player.*

MP3 WMA JPEG ASF DivX MPEG1 MPEG2

This part explains the operation with displays of an MP3 disc as examples.
For a JPEG disc, read “track” as “file”.

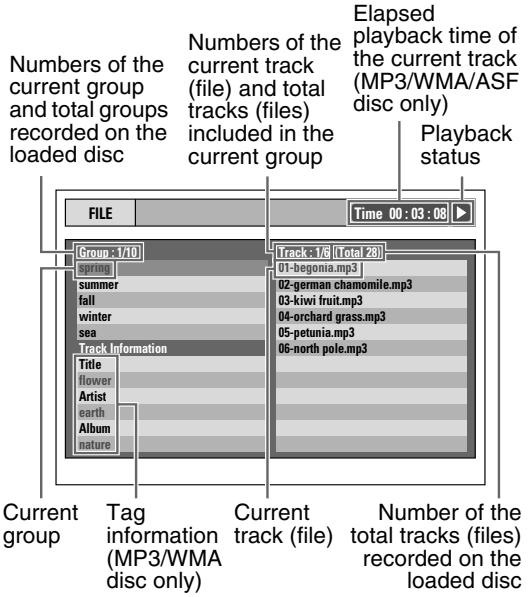
NOTE

- *When files of different types are recorded on a disc, select the file type to be played back. (☞ “FILE TYPE” on page 42)*

1 Slide the remote control mode selector to DVD.

RECEIVER DVD TV

2 Load a disc.



3 Press ▲/▼ (cursor) to select a group.

4 Press ► (cursor) to move to the track list.

- Press ◄ (cursor) to go back to the group list.

5 Press ▲/▼ (cursor) to select a track.

6 Press ► (play) or ENTER.

NOTE

- You can also use **GROUP/TITLE** ⏮ *or* ⏭ *in step 3 and* **PREVIOUS** ⏮ *or* **NEXT** ⏭ *in step 5. In this case, you can skip step 4.*
- *The number buttons can also be used in step 5. In this case, you can skip steps 4 and 6. (Refer to “Using the number buttons”. (☞ page 15))*

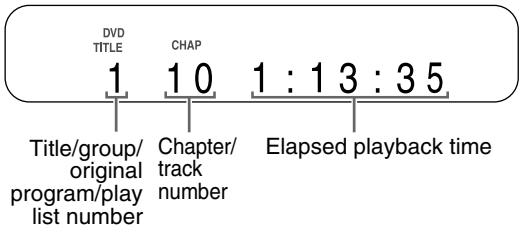
Slide-show playback JPEG

- In step 6, for a JPEG disc, when ► (play) is pressed, files will be continuously played back from the selected file (slide-show playback), and when **ENTER** is pressed, only a selected file will be played back.
- Display time for a file in slide-show playback is about 3 seconds.

Display window on the DVD player

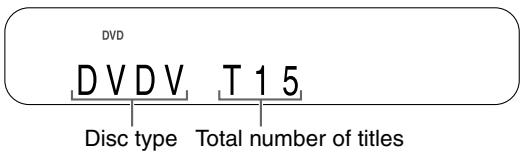
■DVD VIDEO/DVD AUDIO/DVD VR

When a disc is played back



- When a DVD AUDIO is played back, “GR” and “TR” are displayed instead of “TITLE” and “CHAP”.
- When a DVD VR is played back, “VR” is displayed and “PG” (original program) or “PL” (play list) is displayed instead of “TITLE”.
- If “BONUS” or “B.S.P.” is displayed during DVD AUDIO playback, refer to pages 37 and 38.

When a disc is stopped

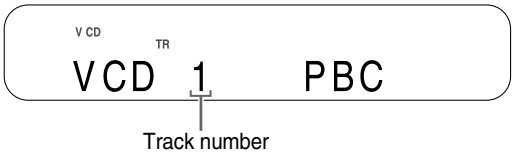


- When a DVD AUDIO is loaded; “DVDA” is displayed instead of “DVDV”, and the total numbers of groups and the tracks are displayed instead of the total numbers of the titles.
- When a DVD VR is loaded; “VR” is displayed instead of “DVDV”, the total number of original programs or the play lists is displayed instead of the total number of titles, and “DVD VR” is displayed instead of “DVD”.

(Continued on the next page)

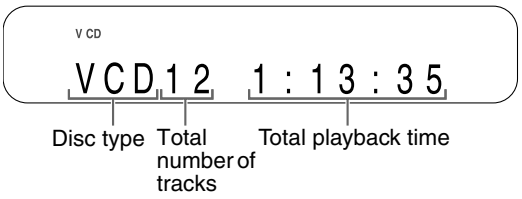
■VCD/SVCD

When a disc is played back



- PBC (Play Back Control) is a signal recorded in a VCD (version 2.0) for controlling playback. You can enjoy interactive software or software with a search function using a menu screen recorded in a PBC compatible VCD. To play back a disc without the PBC function, follow the instructions below.
  - Specify the track number using the number buttons when the disc is stopped. Refer to "Using the number buttons" (☞ page 15).
  - Specify the track number using **PREVIOUS** ⏮ or **NEXT** ⏭ when the disc is stopped, and then press ► (play).
- Press **RETURN** to go back to the upper layer during PBC playback of a VCD or SVCD.

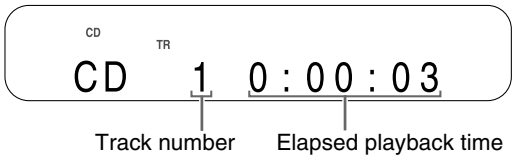
When a disc is stopped



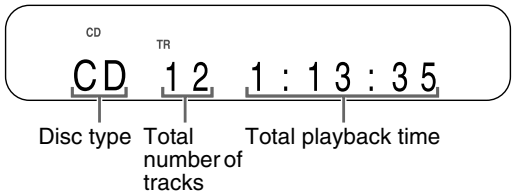
- When the PBC function is activated, the display below appears after the display above is displayed for a short time.

■CD

When a disc is played back

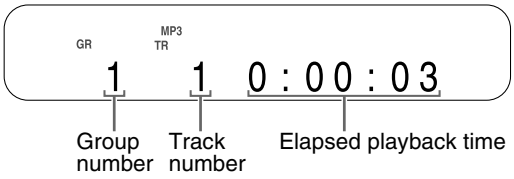


When a disc is stopped



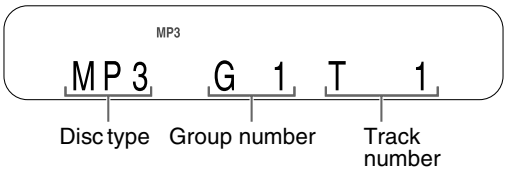
■MP3/WMA/ASF/DivX/MPEG1/MPEG2 disc

When a disc is played back



- When a WMA disc is played back, "WMA" is displayed instead of "MP3".
- When an ASF/DivX/MPEG1/MPEG2 disc is played back, no disc type indicator is displayed.

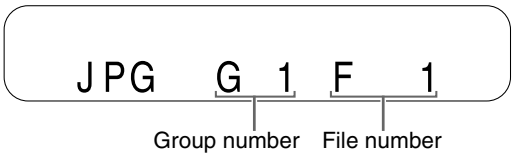
When a disc is stopped



- When a WMA disc is loaded, "WMA" is displayed instead of "MP3" in the upper indicator and the lower display.
- When an ASF disc is loaded; "MP3" disappears in the upper indicator, and "ASF" is displayed instead of "MP3" in the lower display.
- When a DivX disc is loaded; "MP3" disappears in the upper indicator, and "DivX" is displayed instead of "MP3" in the lower display.

■JPEG disc

When a disc is played back or stopped



Changing the display in the display window

Receiver

1 **Slide the remote control mode selector to RECEIVER.**

2 **Press DISPLAY repeatedly.**

- Each time you press **DISPLAY**, the display toggles between the current source (DVD, FM, AM, AUX-DIGITAL or AUX) and the clock.

DVD player

DVD VIDEO DVD AUDIO DVD VR MP3 WMA ASF DivX MPEG1 MPEG2

1 **Slide the remote control mode selector to DVD.**

2 **Press DISPLAY repeatedly during playback.**

- Each time you press **DISPLAY**, the display changes.

■ DVD VIDEO

Normal display (as shown on page 24)
↕
Disc type/title number/chapter number

■ DVD AUDIO

Normal display (as shown on page 24)
↕
Disc type/group number/track number

■ DVD VR

Normal display (as shown on page 24)
↕
Disc type/original program (play list) number/ chapter number

■ MP3/WMA disc

Normal display (as shown on page 25)
↓
File type/group number/track number
↓
Text*

* When text, such as a file name, has been recorded in the loaded MP3/WMA disc, the text appears and scrolls in the display window on the DVD player.

■ ASF/DivX/MPEG1/MPEG2 disc

Normal display (as shown on page 25)
↕
File type/group number/track number

Selecting a chapter/track using the number buttons

DVD VIDEO DVD AUDIO DVD VR CD MP3 WMA JPEG ASF DivX MPEG1 MPEG2 VCD SVCD (PBC off)

■ When a disc is played back

1 **Slide the remote control mode selector to DVD.**

2 **Use the number buttons to select the chapter number or track number.**

- Refer to “Using the number buttons” (☞ page 15).

NOTE

- *You cannot use this function for some discs.*

Stopping playback

DVD VIDEO DVD AUDIO DVD VR VCD SVCD CD MP3 WMA JPEG ASF DivX MPEG1 MPEG2

■ When a disc is played back

1 **Slide the remote control mode selector to DVD.**

2 **Press ■.**

Pausing playback

DVD VIDEO DVD AUDIO DVD VR VCD SVCD CD MP3 WMA JPEG ASF DivX MPEG1 MPEG2

■ **When a disc is played back**

1 Slide the remote control mode selector to DVD.

2 Press ⏸.

- To return to normal playback, press ► (play).

Advancing the picture frame by frame

DVD VIDEO DVD VR VCD SVCD ASF DivX MPEG1 MPEG2

DVD AUDIO
└ (only for moving image)

■ **When a disc is paused**

1 Slide the remote control mode selector to DVD.

2 Press ⏸ repeatedly.

Fast reverse/fast forward search

DVD VIDEO DVD AUDIO DVD VR VCD SVCD CD MP3 WMA ASF DivX MPEG1 MPEG2

■ **When a disc is played back**

1 Slide the remote control mode selector to DVD.

There are two methods in step 2.

2 Press ◄◄ or ►►.

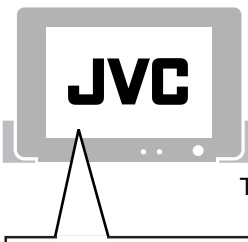
- Each time you press the button, the speed increases. To restore the normal speed, press ► (play).

Hold down PREVIOUS |◄◄ or NEXT ►►|.

- Fast reverse/fast forward search can be used only while the button is pressed.

NOTE

- *For some discs, sound is intermittent or no sound will be produced during fast reverse/fast forward search.*
- *The selectable speeds and displays vary by the disc type.*



Messages displayed on the TV when the power is turned on

The following messages appear depending on the status of the DVD player.

NOW READING	Appears when the DVD player is reading the disc information. Wait for a while.
REGION CODE ERROR!	Appears when the Region Code of the DVD does not match the code the DVD player supports. (☞ page 49)
NO DISC	Appears when no disc is loaded.
OPEN	Appears when the disc tray is opening.
CLOSE	Appears when the disc tray is closing.
CANNOT PLAY THIS DISC	Appears when an unplayable disc is attempted to be played back.

Playing back from a position 10 seconds before (One touch replay)

DVD VIDEO DVD VR

■ **When a disc is played back**

1 **Slide the remote control mode selector to DVD.**

2 **Press ↶ ONE TOUCH REPLAY.**

NOTE

- *This operation may not be used for some discs.*
- *You cannot go back to the previous title.*

Slow motion playback

DVD VIDEO DVD VR VCD SVCD DVD AUDIO (only for moving image)

■ **When a disc is paused**

1 **Slide the remote control mode selector to DVD.**

2 **Press SLOW ⊖ or SLOW ⊕.**

- Each time you press the button, the speed increases.
- Press ❚❚ to pause playback, and press ► (play) to return to normal playback.

NOTE

- *No sound will be produced.*
- *The picture motion in the reverse direction may not be smooth.*
- *For a VCD, SVCD or DVD VR, slow motion playback can be used in the forward direction only.*

Skipping to the beginning of a chapter/ track/file

DVD VIDEO DVD AUDIO DVD VR CD MP3 WMA JPEG ASF DivX MPEG1 MPEG2 VCD SVCD (PBC off)

■ **When a disc is played back**

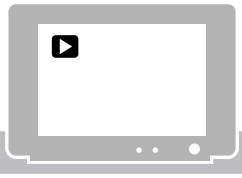
1 **Slide the remote control mode selector to DVD.**

2 **Press PREVIOUS ⏮ or NEXT ⏭.**

- Each time you press the button, the playback position skips to the beginning of the previous or next chapter/track/file.
- Press **PREVIOUS** ⏮ once to skip back to the beginning of the chapter or track currently being played back (except for JPEG).
- Press **GROUP/TITLE** ⏭ or ⏮ to select the title or group.
- During playback of an MP3/WMA/JPEG/ ASF/Divx disc, press **NEXT** ⏭ or ▼ (cursor) to play back the next file, or press **PREVIOUS** ⏮ or ▲ (cursor) to play back the previous file.

NOTE

- *You can use this function while the disc is stopped except for a DVD VIDEO. You can use ▲ or ▼ (cursor) to skip to the beginning of a track while you are viewing the TV screen.*
- *You cannot use this function for some discs.*



Guide icons displayed on the TV screen (on-screen guide)

Play	Containing multi-view angles (☞ page 36)
Pause	Containing multi-audio languages (☞ page 35)
Fast reverse/fast forward search	Containing multi-subtitle languages (☞ page 35)
Slow motion playback (reverse/ forward directions)	The disc cannot accept the operation you have attempted.

Skipping at about 5 minute intervals

DivX MPEG1 MPEG2

You can skip within a file at about 5 minute intervals.
This is useful especially when you want to skip within a long file.

■ **When a disc is played back**

1 **Slide the remote control mode selector to DVD.**

2 **Press ◄ or ► (cursor).**

- Each time you press the button, the playback position skips to the beginning of the previous or next interval. Each interval is about 5 minutes.

NOTE

- *Intervals are automatically assigned from the beginning of a file.*
- *You can use this function only within the same file.*
- *You cannot use this function for some discs.*

Resuming playback

DVD VIDEO DVD AUDIO DVD VR VCD SVCD MP3 WMA ASF DivX MPEG1 MPEG2

When playback is stopped in the middle, playback can be started from the stopped position.

Temporarily stopping playback

■ **When a disc is played back**

1 **Slide the remote control mode selector to DVD.**

2 **Follow any of the operations below.**

Press ■ once.*1 *2
Press ⏻/I **AUDIO** to turn off the power of the receiver.
Press ⏻/I **DVD** to turn off the power of the DVD player.
Change the source to FM/AM or AUX.*2

*1 "RESUME" will be displayed. If ■ is pressed again at this time, "RESUME" will disappear and the stored information will be cleared.

*2 After playback is stopped, even if the receiver or the DVD player is turned off by pressing ⏻/I **AUDIO** or ⏻/I **DVD**, the position where playback has been stopped will be stored.

Starting playback from the stored position

1 **Slide the remote control mode selector to DVD.**

2 **Press ► (play).**

NOTE

- *This function does not work in program playback or random playback.*
- *The position where playback starts again may be a little different from the stopped position.*
- *When the menu screen is displayed, the resume playback function may not work.*
- *The audio language, the subtitle language and the angle at that time are stored together with the stopped position.*
- *The stored position will be cleared if the disc tray is opened.*
- *The resume playback function is activated as the initial setting. You can disable the resume playback function. (☞ "RESUME" on page 42)*

Selecting a track from the menu screen

DVD VIDEO DVD AUDIO VCD SVCD (PBC off)

■ When a disc is stopped or played back

1 **Slide the remote control mode selector to DVD.**

2 **Press MENU/PL or TOP MENU/PG.**

- The menu screen will be displayed.
- Only **TOP MENU/PG** can be used for DVD AUDIOs.

3 **Press ▲/▼/◄/► (cursor) (only for a DVD VIDEO or DVD AUDIO) or the number buttons to select the desired track.**

- Refer to "Using the number buttons" (☞ page 15).
- When the menu screen has a couple of pages, press **PREVIOUS** ⏮ or **NEXT** ⏭ to change the page (only for a VCD and SVCD).

4 **Press ENTER.**

NOTE

- *You cannot use this function for a disc without a menu screen.*
- *Playback may start for some discs without pressing* **ENTER***.*

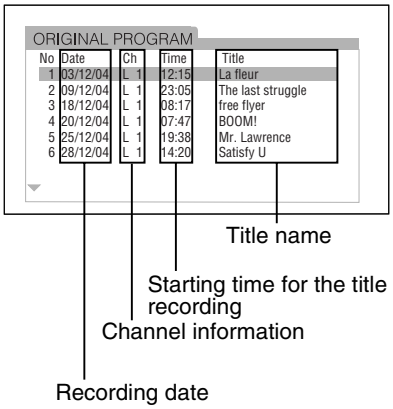
DVD VR

■ When a disc is stopped or played back

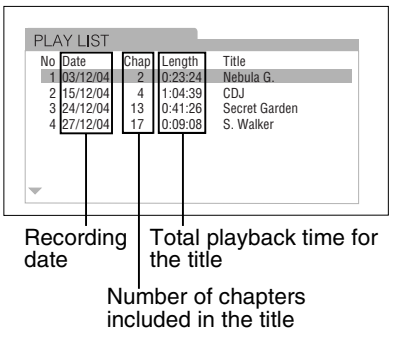
1 **Slide the remote control mode selector to DVD.**

2 **Press TOP MENU/PG to display the original program or press MENU/PL to display the play list.**

■Original program



■Play list

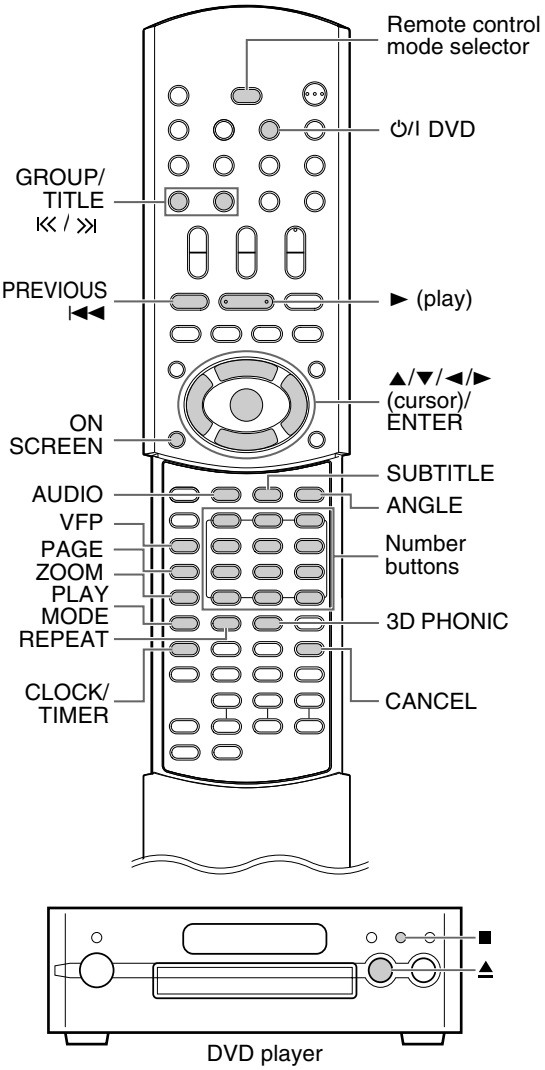


- The play list will not appear when a play list has not been recorded to the disc.

3 **Press ▲/▼ (cursor) to select the desired title.**

4 **Press ENTER.**

- When you have selected the original program by pressing **TOP MENU/PG** in step 2, playback will start from the selected title to the following titles.
- When you have selected the play list by pressing **MENU/PL** in step 2, only the selected title will be played back.



Locking DVD/CD ejection

You can lock the disc tray to prevent the disc from being ejected.

Setting

Turn off the DVD player. And while holding down ■ on the DVD player, press ⏏ on the DVD player.

- "LOCKED" appears in the display window on the DVD player.

Releasing

Follow the same instructions as those for setting.

- "UNLOCKED" appears in the display window on the DVD player.

Playing back a DVD/CD in the desired order (Program playback)

DVD VIDEO DVD AUDIO VCD SVCD CD MP3 WMA

You can program a maximum of 99 tracks or chapters. The same track or chapter can be programmed more than once.

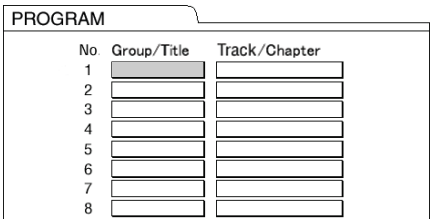
■ **When a disc is stopped**

1 Slide the remote control mode selector to DVD.

2 Press PLAY MODE repeatedly to display "PROGRAM" in the display window on the DVD player.

Example:
Display on the DVD player for a DVD VIDEO

Example:
TV screen for a DVD VIDEO (Program screen)

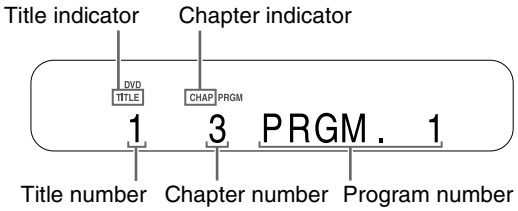


3 Press the number buttons to program chapters/tracks.

- Refer to “Using the number buttons” (☞ page 15).

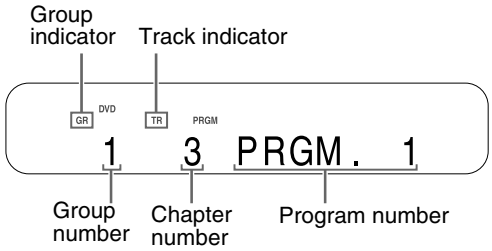
■Display on the DVD player for DVD VIDEO

- Select a title number, and then a chapter number.



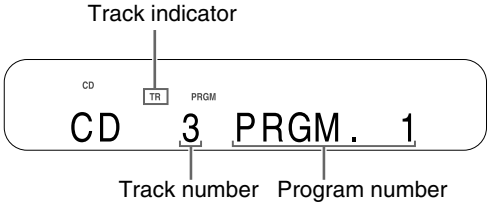
■Display on the DVD player for DVD AUDIO/ MP3/WMA

- Select a group number, and then a track number.



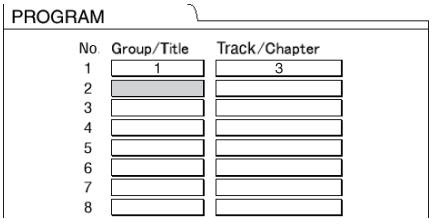
■Display on the DVD player for VCD/SVCD/CD

- Select a track number.
- As you finish the track selection, the total time for the program playback will be displayed.



Example:

TV screen for a DVD VIDEO (Program screen)



- Before selecting a bonus group of a DVD AUDIO, cancel the “BONUS” display as explained in “Playing back the bonus group” on page 37.
- When you try to enter more than 99 chapters or tracks, “MEMORY FULL” appears.
- In the case of a VCD, SVCD or CD, when the total playback time reaches 9 hours 59 minutes 59 seconds, “--:--” will be displayed in the display window on the DVD player.

NOTE

- *Only for a DVD VIDEO, DVD AUDIO, MP3, WMA disc, if you press* **ENTER** *instead of specifying a track/chapter number, “ALL” is displayed and all of the tracks/chapters included in the selected group/ title are programmed.*

4 Press ► (play).

- To return to normal playback, press **PLAY MODE** repeatedly to turn off “PRGM” (the upper indicator) in the display window on the DVD player while the disc is stopped. The program content will not be erased.
- The following operations erase the program content.
  - Hold down **CANCEL** until “ALL CLEAR!” appears in the display window while the program screen is displayed on the TV screen (if **CANCEL** is pressed and released quickly, programs will be erased one by one).
  - Open the disc tray.
  - Turn off the power. (Only when the setting save function (☞ page 34) is not being used)

Playing back a DVD/CD in a random order (Random playback)

DVD VIDEO DVD AUDIO VCD SVCD CD MP3 WMA

■ **When a disc is stopped**

1 **Slide the remote control mode selector to DVD.**

2 **Press PLAY MODE repeatedly to display "RANDOM" in the display window on the DVD player.**

- "RANDOM" will also be displayed on the TV screen.

3 **Press ► (play).**

- The same chapter or track will not be played back twice.
- To return to normal playback, press **PLAY MODE** repeatedly to turn off "RND" (the upper indicator) in the display window on the DVD player while the disc is stopped.
- The following operations also cancel random playback.
  - Open the disc tray.
  - Turn off the power. (Only when the setting save function (☞ page 34) is not being used)
- The previous track will not be returned to even if **PREVIOUS** ⏮ is pressed repeatedly during random playback. (Playback will be returned to the beginning of the current chapter or track.)

NOTE

- *You cannot use the random playback function for some DVD VIDEOs.*

Playing back a DVD/CD repeatedly (Repeat playback)

DVD VIDEO DVD AUDIO DVD VR CD MP3 WMA JPEG ASF DivX MPEG1 MPEG2 VCD SVCD

└(PBC off)

■ **When a disc is played back**

1 **Slide the remote control mode selector to DVD.**

2 **Press REPEAT.**

- Each time you press the button, the repeat mode changes.

Display on the TV screen	Display in the display window on the DVD player	Usage for the repeat mode
TITLE	ALL REPEAT TITLE	Repeats the current title.
ALL or REPEAT ALL	ALL REPEAT ALL	Repeats the whole disc*1.
GROUP*2 or REPEAT GROUP	GR REPEAT GROUP*2	Repeats the current group*3.
CHAP*4	REPEAT CHAP*4	Repeats the current chapter.
TRACK*4 or REPEAT TRACK	REPEAT TRACK*4	Repeats the current track.
OFF or no display	REPEAT OFF	Repeat off

*1 Repeats the whole program during program playback.
*2 For a DVD VR, "PG" is displayed during original program playback, and "PL" is displayed during play list playback.
*3 Repeats the current original program or the current play list for a DVD VR.
*4 "STEP" is displayed during program/random playback.

NOTE

- *The repeat playback can also be set on the menu bar. (☞ "Playing back a specified part repeatedly (A-B repeat playback)" on page 34)*
- *For a DVD VIDEO, DVD AUDIO and DVD VR, if the source is switched to FM/AM or AUX, the repeat mode will be cancelled.*
- *The repeat mode will be automatically cancelled if there is a file that cannot be played back (☞ page 49 and 50).*

Playing back a specified part repeatedly (A-B repeat playback)

DVD VIDEO DVD AUDIO DVD VR CD VCD SVCD (PBC off)

You can play back the desired part repeatedly by specifying a start point (A) and an end point (B).

■ **When a disc is played back**

1 **Slide the remote control mode selector to DVD.**

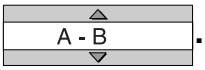
2 **Press ON SCREEN twice.**

- The menu bar (☞ page 39) will be displayed.

3 **Press ◄/► (cursor) to select** ↻ OFF **.**

4 **Press ENTER.**

5 **Press ▲/▼ (cursor) to display**



.

- Other repeat modes can be selected in this step. For other repeat modes, refer to "Playing back a DVD/CD repeatedly (Repeat playback)" (☞ page 33).

6 **Press ENTER at the start point of the part to be repeated (specifying point A).**

- The icon on the menu bar will be ↻ A- .

7 **Press ENTER at the end point of the part to be repeated (specifying point B).**

- The icon on the menu bar will be ↻ A-B . ↻ will appear in the display window on the DVD player and the part between points A and B will be played back repeatedly.
- A-B repeat playback can be cancelled by following the operations below.
  - Press ■.
  - Select ↻ A-B and press **ENTER** twice. (Select ↻ OFF .)

NOTE

- *You can use A-B repeat playback only within the same title or track.*
- *You cannot use A-B repeat playback during program playback, random playback or repeat playback.*
- *You cannot use the A-B repeat playback function for some DVD VIDEOs.*

Saving the playback settings for next time

DVD VIDEO DVD AUDIO DVD VR VCD SVCD CD MP3 WMA JPEG ASF MPEG1 MPEG2

You can save the settings for program playback, random playback or repeat playback so that the settings are activated even after the DVD player is turned off and then on again.

Combining this function with the playback timer (☞ page 45), you can make a variety of playback settings.

1 **Slide the remote control mode selector to DVD.**

2 **Press CLOCK/TIMER.**

- The current settings for program/random/repeat playback will be stored.

Display on the DVD player

NOTE

- *To cancel the setting save function, press* **CLOCK/TIMER** *again.*

- *Opening the disc tray also cancels the setting save function.*
- *Resume playback does not work when the settings for program/random/repeat playback are saved. For example, if the program playback settings are saved and* ⏻/I **DVD** *is pressed to turn off the DVD player during playback, pressing* ⏻/I **DVD** *to turn on the DVD player again and pressing* ► *(play) starts playback of the first programmed track/chapter. Conversely, if the program playback settings are not saved and* ► *(play) is pressed after the DVD player is turned on, the resume playback function operates and playback starts from the point where the disc was stopped.*
- *For a JPEG/ASF/DivX/MPEG1/MPEG2 disc, you can use the setting save function for repeat playback only.*

Selecting the subtitles

DVD VIDEO DVD VR SVCD DivX DVD AUDIO
(only for moving image)

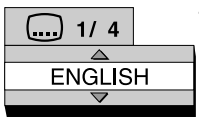
This part explains the operation with displays of a DVD VIDEO as examples.
You can use discs of other types in almost the same manner.

■ **When a disc contains subtitles and is played back**

1 **Slide the remote control mode selector to DVD.**

2 **Press SUBTITLE.**

Example:



TV screen

- Each time you press the button, the subtitle will toggle between on and off.

3 **Press ▲/▼ (cursor) to select a subtitle language.**

4 **Press ENTER.**

- The subtitle language setting will change automatically in a few seconds even if **ENTER** is not pressed.

NOTE

- *You can use this function with the menu bar (☞ page 39).*
- *For a language code such as "AA", refer to "Language codes" (☞ page 53).*

Selecting the audio language

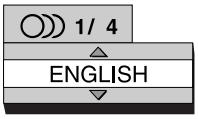
DVD VIDEO DVD AUDIO DVD VR VCD SVCD DivX

■ **When a disc contains multiple audio languages and is played back**

1 **Slide the remote control mode selector to DVD.**

2 **Press AUDIO.**

Example:



TV screen

- Each time you press the button, the audio language will be changed. Also, the audio language can be changed by pressing ▲/▼ (cursor).

3 **Press ENTER.**

- The audio language setting will change automatically in a few seconds even if **ENTER** is not pressed.

NOTE

- *You can use this function with the menu bar (☞ page 39).*
- *For a language code such as "AA", refer to "Language codes" (☞ page 53).*
- *"ST", "L" and "R" displayed when playing back a VCD, SVCD or DVD VR respectively represent "Stereo", "Left sound" and "Right sound".*
- *For a DivX disc, only the number of the language is displayed on the TV screen.*

Selecting the view angle

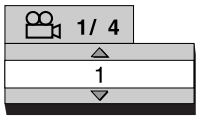
DVD VIDEO DVD AUDIO
(only for moving image)

■ **When a scene containing multi-view angles is played back**

1 **Slide the remote control mode selector to DVD.**

2 **Press ANGLE.**

Example:



TV screen

- Each time you press the button, the angle will be changed. Also, the angle can be changed by pressing ▲ /▼ (cursor).

3 **Press ENTER.**

- The angle setting will change automatically in a few seconds even if **ENTER** is not pressed.

NOTE

- *You can use this function with the menu bar (☞ page 39).*

Magnifying the picture (ZOOM)

DVD VIDEO DVD VR VCD SVCD JPEG ASF DivX MPEG1 MPEG2 DVD AUDIO
(only for moving image)

■ **When a disc is played back or paused**

1 **Slide the remote control mode selector to DVD.**

2 **Press ZOOM.**

- Each time you press the button, the picture magnification will be changed.

3 **Select the portion you want to magnify by using ▲/▼/◄/► (cursor).**

- To return to normal playback, select “ZOOM OFF” in step 2.

NOTE

- *For a JPEG, you cannot change the picture magnification during slide-show playback.*
- *During ASF playback, there may be a case where ▲/▼/◄/► (cursor) does not work in step 3.*

Adjusting the picture quality (VFP)

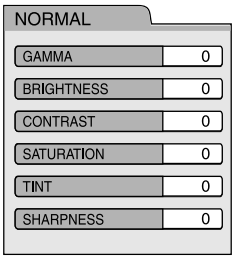
DVD VIDEO DVD AUDIO DVD VR VCD SVCD JPEG ASF DivX MPEG1 MPEG2

■ **When a disc is played back or paused**

1 Slide the remote control mode selector to DVD.

2 Press VFP.

- The current setting will appear on the TV screen.



- The “GAMMA” setting adjusts the brightness of neutral tints while maintaining the brightness of dark and bright portions.
- The “SHARPNESS” setting adjusts the screen sharpness.

3 Press ◄/► (cursor) to select VFP mode.

- Selecting “NORMAL” is suitable for normal usage, and selecting “CINEMA” is suitable for a dark room. When selecting “NORMAL” or “CINEMA”, proceed to step 8.
- Selecting “USER1” or “USER2” enables you to make detailed adjustment in step 4 and the later steps.

4 Press▲/▼ (cursor) to select an item to be adjusted.

5 Press ENTER.

Example:

TV screen

6 Press ▲/▼ (cursor) to change the value.

7 Press ENTER.

- To adjust other items, go back to step 4.

8 Press VFP.

NOTE

- *If no operation is made for several seconds during the procedure, the settings made so far will be automatically stored.*
- *“VFP” stands for “Video Fine Processor”.*

Playing back the bonus group

DVD AUDIO

There are some DVD AUDIOs with a special group, called “bonus group”, recorded.

NOTE

- *You can use this function when “BONUS” lights up in the display window on the DVD player.*

■ **When a disc is played back**

1 Slide the remote control mode selector to DVD.

2 Press GROUP/TITLE ⋙| repeatedly to select a bonus group.

- “KEY_ _ _ _” appears on the TV screen, and in the display window on the DVD player.

3 Press the number buttons to enter the pin code (4 digits).

- The method of obtaining a pin code differs depending on the disc.

4 Press ENTER.

- When the correct pin code is entered, “BONUS” disappears and the playback of the bonus group starts.
- If an incorrect pin code is entered, try entering the correct pin code again.

Browsable still pictures (B.S.P.)

DVD AUDIO

Some DVD AUDIOs may have pictures called B.S.P. (Browsable Still Pictures). The pictures can be viewed as if you are turning pages.

NOTE

- *You can use this function when "B.S.P." lights up in the display window on the DVD player.*

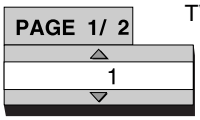
■ When a disc is played back

1 Slide the remote control mode selector to DVD.

2 Press PAGE.

- Each time you press the button, the still picture will be changed. You can also switch the picture using ▲/▼ (cursor).

Example:



TV screen

3 Press ENTER.

- The picture setting will change automatically in a few seconds even if **ENTER** is not pressed.

NOTE

- *You can use this function with the menu bar (☞ page 39).*

Creating realistic sound (3D PHONIC)

DVD VIDEO DVD AUDIO DVD VR VCD SVCD CD MP3 WMA

The two speakers produce an effect resembling surround-sound.

■ When a disc is played back

1 Slide the remote control mode selector to DVD.

2 Press 3D PHONIC repeatedly to select the desired sound effect.

Example:

Display on the DVD player

This indicator lights up when 3D PHONIC is activated.

- "ACTION" is suitable for action movies, sport programs or other lively programs.
- Select "DRAMA" to enjoy a sound effect with a relaxing, natural atmosphere.
- Select "THEATER" to enjoy a sound effect as if you were watching the movie in a theater.
- Select "3D PHONIC OFF" to cancel 3D PHONIC. (initial setting)

NOTE

- *3D PHONIC is effective for both the speakers and headphones.*
- *If noise is produced or sound is distorted, select "3D PHONIC OFF ".*
- *When 3D PHONIC is activated, analog playback is selected automatically, and "DVD-ANALOG" is displayed in the display window on the receiver. Canceling 3D PHONIC returns to "DVD-DIGITAL" automatically. When a DVD AUDIO is played back, signals are converted into analog signals regardless of whether 3D PHONIC is activated or canceled.*
- *You cannot use this function for some DVD AUDIOs.*
- *When 3D PHONIC is activated, the CC CONVERTER function will be cancelled automatically. (☞ page 17)*
- *For an ASF/DivX/MPEG1/MPEG2 disc, 3D PHONIC does not work and creates no sound effect even when "ACTION", "DRAMA" or "THEATER" is displayed.*

Using the status bar and the menu bar

DVD VIDEO DVD AUDIO DVD VR VCD SVCD CD ASF DivX MPEG1 MPEG2

■ **When a disc is played back**

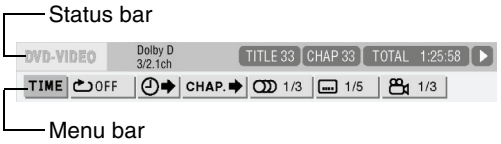
1 Slide the remote control mode selector to DVD.

2 Press ON SCREEN twice.

- "ON SCREEN" will appear in the display window on the DVD player. The status bar and the menu bar will appear on the TV screen.

Example:

When a DVD VIDEO is loaded



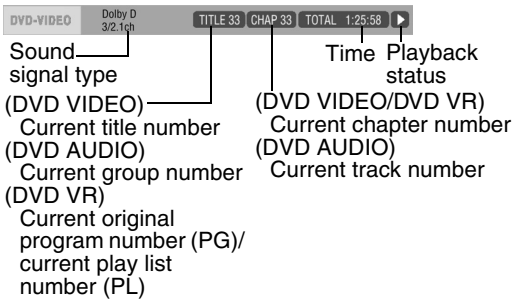
3 Press ◄/► (cursor) to select an item to be operated.

4 Press ENTER.

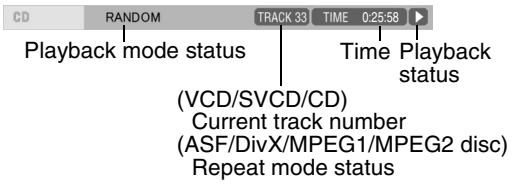
- The selected function can be set. For the setting content, refer to "Function list". (☞ page 40)
- The currently active function is shown in blue.
- To turn off the menu bar, press **ON SCREEN**.

Information displayed on the status bar

DVD VIDEO/DVD AUDIO/DVD VR (the example below is for a DVD VIDEO)



VCD/SVCD/CD/ASF/DivX/MPEG1/MPEG2 disc (the example below is for a CD)



NOTE

- *The playback status has the same meaning of the mark on the on-screen guide (☞ page 28).*

Function list

For functions with no description of the operation, press ▲/▼ (cursor) to select and press **ENTER** to determine the function.

TIME Time display selection	Changes the time information in the display window on the DVD player and the status bar. Each time **ENTER** is pressed, the display will be changed. **DVD VIDEO/DVD AUDIO (operating during playback)** TOTAL: Elapsed playback time of the current title/group. T.REM: Remaining time of the current title/group. TIME : Elapsed playback time of the current chapter/track. REM : Remaining time of the current chapter/track. **DVD VR (operating during playback)** TOTAL: Elapsed playback time of the current title/group. T.REM: Remaining time of the current title/group. **CD (operating during playback)/VCD/ SVCD** TIME : Elapsed playback time of the current track. REM : Remaining time of the current track. TOTAL: Elapsed playback time of the disc. T.REM: Remaining time of the disc.
Repeat mode	☞ page 33
Time search	☞ on the right
CHAP. / TRACK Chapter search (DVD VIDEO/DVD VR)/Track search (DVD AUDIO)	Selects a chapter/track. Press the number buttons to input the chapter/ track number and press **ENTER**. Examples: 5: 5 24: 2 → 4
Audio language/ Audio (DVD VIDEO/ DVD AUDIO/VCD/ SVCD)	☞ page 35
Subtitle language (DVD VIDEO/DVD VR/SVCD)	☞ page 35
1/ 3 View angle (DVD VIDEO/DVD AUDIO)	☞ page 36
PAGE -/- Page switch (DVD AUDIO)	Switches the browsable still pictures (B.S.P.) recorded on a DVD AUDIO. (☞ page 38)

Designating the time (Time search)

■ When a disc is played back

1 **Slide the remote control mode selector to DVD.**

2 **Press ON SCREEN twice.**

- The menu bar will appear (☞ page 39).

3 **Press ◄/► (cursor) to select .**

4 **Press ENTER.**

5 **Input the time using the number buttons (1-9, 0).**

Example:

When you want to play back a DVD VIDEO from the position of (0 hour) 23 minutes 45 seconds, press the buttons in the order:

0 → 2 → 3 → 4 → 5 .

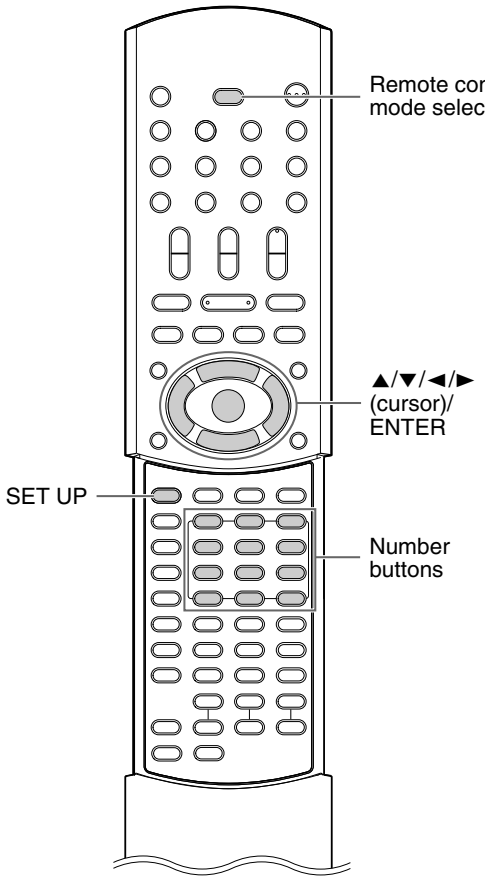
- You can skip the minute and second setting.
- If the incorrect value is input, press ◄ (cursor) to delete the values and input values again.

6 **Press ENTER.**

- To turn off the menu bar, press **ON SCREEN**.

NOTE

- *This function does not work for a DVD VIDEO with no time information recorded.*
- *This function does not work during program playback or random playback.*
- *For a CD, you can use this function any time.*
- *For a VCD or SVCD, you can use this function during playback without the PBC function.*
- *Time search for a DVD VIDEO is from the beginning of the title. Time search for a DVD AUDIO is from the beginning of the track being played back. Time search for a VCD, an SVCD and a CD is as follows:*
  - *When the disc is stopped, time search is from the beginning of the disc.*
  - *When the disc is being played back, time search is within the track currently being played back.*



The initial settings of the DVD player can be changed with the preference screen according to the environment where the DVD player is used.

NOTE

- *The top and bottom of the preference screen may not be displayed on a wide TV. Adjust the picture size on the TV.*

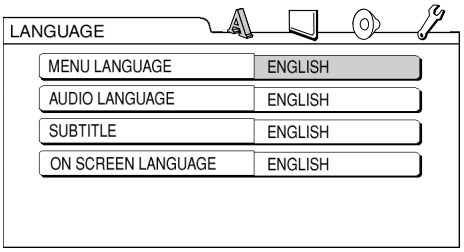
Basic operations

■ **When a disc is stopped or no disc is loaded ("NO DISC" is displayed)**

1 **Slide the remote control mode selector to DVD.**

2 **Press SET UP.**

- The following screen will be displayed on the TV.



- Proceed with operations by following the description on the TV screen.

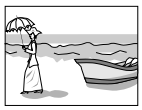
LANGUAGE

NOTE

- *If the selected language is not recorded on the disc, the optimum language set for the disc will be displayed.*
- *For a language code such as "AA", refer to the "Language codes" (☞ page 53).*

Items	Contents
MENU LANGUAGE	Selects the language for the DVD VIDEO menu screen.
AUDIO LANGUAGE	Selects the audio language for the DVD VIDEO.
SUBTITLE	Selects the subtitle language for the DVD VIDEO.
ON SCREEN LANGUAGE	Selects the language displayed on the preference screens.

PICTURE

Items	Contents (: initial setting)
MONITOR TYPE	**16 : 9 :** For an ordinary wide TV. **4 : 3 LB (Letterbox) :** For a TV with conventional 4:3 aspect ratio. When a wide screen picture is input, the black bars appear on the top and bottom of the screen. **4 : 3 PS (Pan Scan):** For a TV with conventional 4:3 aspect ratio. When a wide screen picture is input, the left and right edges of the picture will not be shown on the screen. (If the disc is not compatible with Pan Scan, the picture will be displayed at the Letterbox ratio.) 
PICTURE SOURCE	Select an item suitable to the video source. **AUTO :** The video source type (a video or film) is automatically selected. **FILM:** To view a film or video recorded with the progressive scan method. **VIVEO:** To view a normal video.
SCREEN SAVER	Select the Screen Saver mode between ON / OFF (Screen Saver activates when there is no operation made for about 5 minutes since a still picture was last displayed).
FILE TYPE	Select an item suitable to the file type. **AUDIO :** For MP3/WMA files. **STILL PICTURE:** For JPEG files. **VIDEO:** For ASF/DivX/MPEG1/MPEG2 files.

AUDIO

Items	Contents (: initial setting)
DIGITAL AUDIO OUTPUT*	**Select the output signal type suitable to the equipment connected to the DIGITAL OUT terminal (a decoder-built-in amplifier or other digital equipment with an optical input terminal). Refer to "List of relationships of DIGITAL AUDIO OUTPUT preference items and output signal" (☞ page 43).** **PCM ONLY :** Equipment corresponding only to linear PCM. **DOLBY DIGITAL/PCM:** Dolby digital decoder or equipment having the same function. **STREAM/PCM:** DTS/Dolby digital decoder or equipment having the same function.
DOWN MIX	**Select the signal suitable to the equipment connected to the DIGITAL OUT terminal. Set "DOWN MIX" only when "DIGITAL AUDIO OUTPUT" is set to "PCM ONLY".** **DOLBY SURROUND:** Dolby Pro Logic decoder-built-in equipment. **STEREO :** Ordinary audio equipment.
D (Dynamic). RANGE COMPRESSION	**To correct the difference between high volume and low volume when playing back with low volume (only for a DVD recorded with Dolby digital).** **AUTO :** The D. RANGE COMPRESSION function automatically works. **ON:** The D. RANGE COMPRESSION function always works.

* When using the supplied XV-EXA10, make sure that "DIGITAL AUDIO OUTPUT" is set to "PCM ONLY".

OTHERS

Items	Contents (: initial setting)
RESUME	**Select ON /OFF. (☞ page 29)**
ON SCREEN GUIDE	**Select ON /OFF. (☞ page 28)**
AV COMPULINK MODE	**This item is currently not used. (This is provided for future use.)**
DivX REGISTRATION	**The DVD player has its own registration code. You can confirm the registration code, when necessary. Once you have played back a disc in which the registration code is recorded, the registration code of the DVD player is overwritten for copyright protection.**

For the locations of the remote control buttons, refer to page 41.

List of relationships of DIGITAL AUDIO OUTPUT preference items and output signal

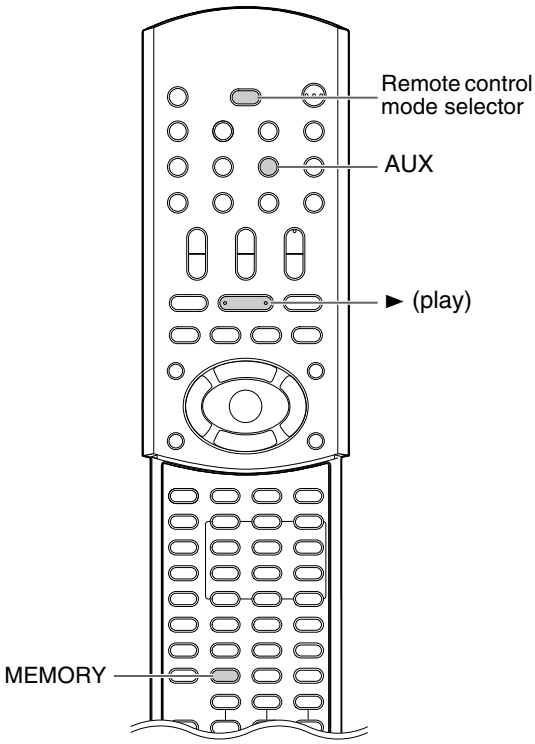
Playback disc	DIGITAL AUDIO OUTPUT preference		
	PCM ONLY	DOLBY DIGITAL/PCM	STREAM/PCM
48 kHz, 16/20/24 bit Linear PCM DVD VIDEO 96 kHz linear PCM DVD VIDEO	48 kHz, 16 bit stereo linear PCM		
48/96/192 kHz, 16/20/24 bit linear PCM DVD AUDIO*	48 kHz, 16 bit stereo linear PCM		
44.1/88.2/176.4 kHz, 16/20/24 bit linear PCM DVD AUDIO*	44.1 kHz, 16 bit stereo linear PCM		
DTS DVD VIDEO/DVD AUDIO*	48 kHz, 16 bit stereo linear PCM		DTS bit stream
DOLBY DIGITAL DVD VIDEO/DVD AUDIO*	48 kHz, 16 bit stereo linear PCM	DOLBY DIGITAL bit stream	
VCD/SVCD/CD	44.1 kHz, 16 bit stereo linear PCM/48 kHz, 16 bit linear PCM		
DTS CD	44.1 kHz, 16 bit linear PCM		DTS bit stream
MP3/WMA/DivX disc	32/44.1/48 kHz, 16 bit linear PCM		

NOTE

** Copyright-protected DVD AUDIOs do not output signals.*

- *Among DVD VIDEOs without copyright protection, there may be some DVD VIDEOs that output a 20 or 24 bit signal through the digital audio output terminals.*
- *To produce the sound from the loaded disc in the DVD player, select "PCM ONLY". Otherwise the receiver does not detect the signal and no sound is produced. (The initial setting is "PCM ONLY".)*

Listening to the sound of other audio equipment



Connect the other audio equipment to this system in advance (☞ page 12).

1 Slide the remote control mode selector to RECEIVER.

2 Press AUX to select "AUX-DIGITAL" or "AUX".

- Each time you press **AUX**, the display on the receiver toggles between "AUX-DIGITAL" and "AUX".
- The source changes to the signal from the AUX terminals.
- You can also use **SOURCE SELECT** on the receiver to select the signal from the AUX terminals as the sound source.

3 Begin playback on the other audio equipment.

- For details on beginning playback, refer to the manual of the connected equipment.

4 Adjust the volume and the sound quality of the system (☞ page 16).

NOTE

- *When no equipment is connected to the DIGITAL IN AUX terminal or the power of the connected equipment is off, after "AUX-DIGITAL" is selected, the display changes to "AUX-D UNLOCK".*

Adjust the sound input level of the audio equipment

You can adjust the sound input level of audio equipment connected to the AUX terminals.

1 Slide the remote control mode selector to RECEIVER.

2 Press AUX to select "AUX".

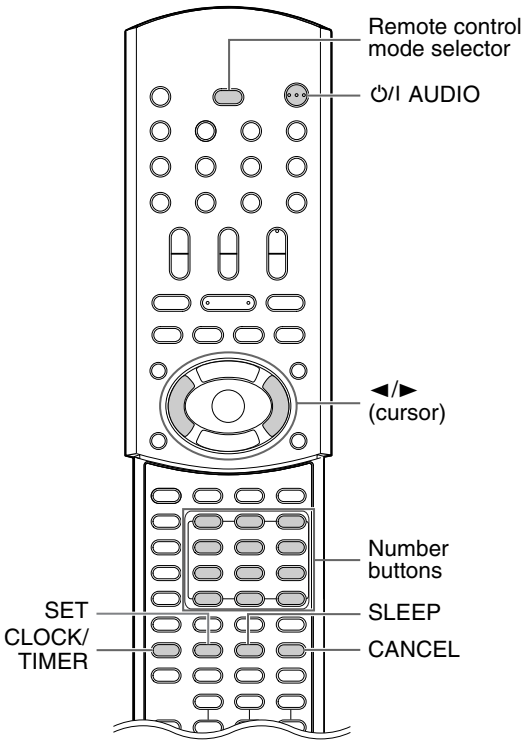
- Each time you press **AUX**, the display on the receiver toggles between "AUX-DIGITAL" and "AUX".
- The source changes to the signal from the AUX terminals.

3 Hold down MEMORY until the input level is displayed.

- Each time you hold down the button, the input level switches as follows:

LEVEL1 STORED: For normal use. (initial setting)

LEVEL2 STORED: To correct distorted sound caused by an extremely high input level from other equipment.



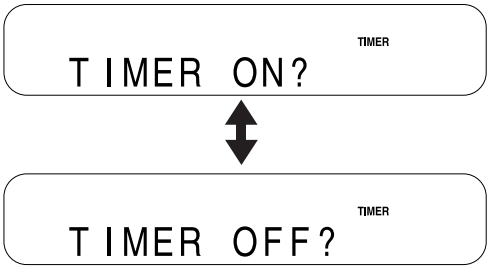
Using the playback timer

Set the clock beforehand. (☞ page 15)

1 Slide the remote control mode selector to RECEIVER.

2 Press CLOCK/TIMER.

Display on the receiver



- If you accidentally pressed **CLOCK/TIMER** twice or more, press **CLOCK/TIMER** repeatedly until the display shown above is displayed.

3 Press SET.

4 Set the starting time and ending time with ◄, ► (cursor), and then press SET.

Example:
Display on the receiver when setting the starting time to 8:45

Display on the receiver when setting the ending time to 9:45

- Press ◄ or ► (cursor) to select the value and press **SET** to set the value.
- You can use the number buttons instead of ◄ or ► (cursor). Refer to "Using the number buttons" (☞ page 15).

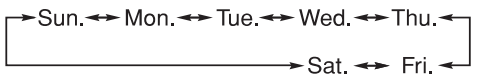
5 Press ◄ or ► (cursor) to select "ONCE" or "WEEKLY", and then press SET.

ONCE	The playback timer works once.
WEEKLY	The playback timer works weekly or every day.

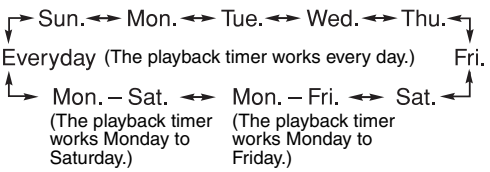
6 Press ◄ or ► (cursor) to select the desired day of the week, and then press SET.

- Each time you press ◄ or ► (cursor), the display changes as follows.

When "ONCE" is selected



When "WEEKLY" is selected



7 **Press ◄ or ► (cursor) to select the desired sound source, and then press SET.**

- If you have selected “FM” or “AM” in this step, press ◄, ► (cursor) or the number buttons to select the preset number of the radio station whose broadcast you want to listen to (Refer to “Using the number buttons” (☞ page 15)), and then press **SET**.

8 **Press ◄ or ► (cursor) to adjust the playback volume, and then press SET.**

- You can use the number buttons to specify the volume.
- The settings will appear in the display window on the receiver.

9 **Press ⏻/I AUDIO to turn off the receiver.**

- The playback timer is available only when the receiver is off.

This indicator lights up when the playback timer is activated.

NOTE

- *Complete the playback timer setting at least 1 minute prior to the starting time you have selected in step 4.*
- *While setting the playback timer, you can return to the previous step by pressing* **CANCEL** *or you can stop the setting by pressing* **CLOCK/TIMER**.
- *When the playback starts, the volume gradually increases to the selected level.*
- *You can make a variety of playback settings by combining the playback timer and saving the settings for program playback, random playback or repeat playback. (☞ page 34)*

Canceling the playback timer

Press CANCEL after following steps 1 and 2 on page 45.

NOTE

- *Even after you canceled the playback timer, the setting remains stored.*

Activating the playback timer again

After following steps 1 and 2 on page 45, press ENTER. Then press ⏻/I AUDIO to turn off the receiver.

NOTE

- *When the power cord of the receiver is disconnected from the AC outlet or the power is interrupted, the clock and the playback timer settings may be lost. If the settings are lost, set the clock and playback timer again.*

Confirming the playback timer settings

Press SET repeatedly after following steps 1, 2 and 3 on page 45.

- To return to the normal display while confirming the settings, press **CLOCK/TIMER**.

Changing the playback timer settings

Set the playback timer again from step 1 on page 45.

For the locations of the remote control buttons, refer to page 45.

Using the sleep timer

When the time you specify elapses, the system will be turned off automatically.

1 **Slide the remote control mode selector to RECEIVER.**

2 **Press SLEEP.**

- Each time you press the button, the time indicated in the display window on the receiver changes (in minutes).

Example:
Display on the receiver when the sleep timer is set to 60 minutes

The sleep timer will be automatically set in a few seconds, and the indication will disappear.

NOTE

When the sleep timer is set, the display window darkens automatically.

Changing the time

Select the time again by pressing SLEEP repeatedly in step 2.

Confirming the time

Press SLEEP once in step 2 while the sleep timer is set.

Canceling the sleep timer

Press SLEEP repeatedly in step 2 until “SLEEP OFF” appears.

NOTE

- *The sleep timer will also be cancelled when the power is turned off.*

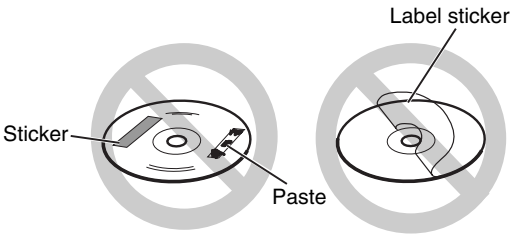
Notes on handling

■ Important cautions

Installation of the system
- Select a place which is level, dry and neither too hot nor too cold; between 5°C and 35°C.
- Leave sufficient distance between the system and the TV.
- Do not use the system in a place subject to vibration.

Power cord
- Do not handle the power cord with wet hands!
- A small amount of power is always consumed while the power cord is connected to the wall outlet.
- When unplugging the power cord from the wall outlet, always pull on the plug, not the power cord.

To prevent malfunctions of the system
- There are no user-serviceable parts inside. If anything goes wrong, unplug the power cord and consult your dealer.
- Do not insert any metallic object into the system.
- Do not use any non-standard shape disc (like a heart, flower or credit card, etc.) available on the market, because it may damage the system.
- Do not use a disc with tape, stickers, or paste on it, because it may damage the system.



Note about copyright laws
Check the copyright laws in your country before recording from DVDs, VCDs, SVCDs and CDs. Recording of copyrighted material may infringe copyright laws.

Note about copy guard system
DVDs are protected by copy guard system. When you connect the system to your VCR directly, the copy guard system activates and the picture may not be played back correctly.

■ Safety precautions

Avoid moisture, water and dust
Do not place the system in moist or dusty places.

Avoid high temperatures
Do not expose the system to direct sunlight and do not place it near a heat source.

When you are away
When away on travel or for other reasons for an extended period of time, disconnect the power cord plug from the wall outlet.

Care of the cabinet
When cleaning the system, use a soft cloth and follow the relevant instructions on the use of chemically-coated cloths. Do not use benzene, thinner or other organic solvents including disinfectants. These may cause deformation or discoloring.

Care of the disc tray
When cleaning the disc tray, gently wipe the dirt off the surface with a soft cloth dampened with a small amount of a neutral detergent diluted with water, preventing the discoloration and damage to its surface.

If water gets inside the system
Turn the system off and disconnect the power cord plug from the wall outlet, then call the store where you made your purchase. Using the system in this condition may cause fire or electrical shock.

■ When condensation or water drops adhere to the lens

In any of the following cases, condensation or water drops may adhere to the lens, preventing the system from working properly:
- Immediately after room heating starts
- When the system is installed in a steamy or damp space
- When the system is suddenly moved from a cold place to a warm space

In any of these cases, leave the system turned on for 1 or 2 hours before use.

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- ***"DTS" and "DTS 2.0+DIGITAL OUT" are registered trademarks of Digital Theater Systems, Inc.***
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- ***"Official DivX Certified™ product", "Plays DivX® 5, DivX® 4, DivX® 3, and DivX® VOD video content (in compliance with DivX Certified™ technical requirements)", "DivX, DivX Certified", and associated logos are trademarks of DivXNetworks, Inc. and are used under license.***

Playable DVD/CD types

	CD-R/ CD-RW	DVD-R[1]	DVD-RW
Audio CD format	Playable	—	—
VCD/SVCD format	Playable	—	—
MP3/WMA/ JPEG format	Playable	Playable[4]	Playable[4]
DVD Video format	—	Playable	Playable
DVD VR format	—	Playable[2]	Playable
DivX format	Playable	Playable[3]	Playable
ASF (Advanced Systems Format)	Playable	Playable	Playable
MPEG1/MPEG2 format	Playable	Playable	Playable

- Discs should be finalized before being played back.

1 A DVD-R recorded in multi-border format is also playable (except for dual layer discs).
2 Only when a DVD-R is compatible with CPRM (Content Protection for Recordable Media), DVD VR format can be used.
3 A DivX formatted DVD-ROM is also playable.
4 Among MP3/WMA/JPEG discs, only discs formatted with a combination of Universal Disc Format and ISO 9660 (known as UDF Bridge) are playable.

Some discs may not be played back because of their disc characteristics, recording conditions, or damage or stains on them.

It is possible to play back finalized +R/+RW (DVD Video Format only) discs. “DVD” lights on the front display panel when a +R/+RW disc is loaded.

Only sounds can be played back from the following discs:

MIX-MODE CD CD-G
CD-EXTRA CD TEXT

This system accommodates the PAL system, and also can play discs recorded with NTSC system. Note that an NTSC video signal on a disc is converted to the PAL60 signal and output.

Region code of DVD VIDEO

DVD VIDEO players and DVD VIDEO discs have their own Region Code numbers. This system can play back DVD VIDEO discs whose Region Code numbers include the system’s Region Code, which is indicated on the rear panel.

Examples:

If a DVD VIDEO with an improper Region Code number is loaded, “REGION CODE ERROR!” appears on the TV screen and playback cannot start.

- **On some DVD VIDEOs, DVD AUDIOs, VCDs, SVCDs or DivX discs, their actual operation may be different from what is explained in this manual. This is due to the disc programming and disc structure, not a malfunction of this system.**

Discs you can play back:

Disc Type	Mark (Logo)
DVD VIDEO	
DVD AUDIO	
VCD	
SVCD	
CD	
CD-R	
CD-RW	
DivX	

Discs that cannot be played back

- The following discs cannot be played back:
  DVD-ROM (except for MP3/WMA/JPEG/ASF/DivX/ MPEG1/MPEG2 format), DVD-RAM, CD-ROM, CD-I (CD-I Ready), Photo CD, SACD, etc.
  Playing back these discs will generate noise and damage the speakers.

Damaged discs and discs in an extraordinary shape (other than a disc of 12 cm or 8 cm in diameter) cannot be played back.

About MP3/WMA/JPEG/ASF/DivX/MPEG1/ MPEG2 discs

Playable MP3/WMA/JPEG/ASF/DivX/MPEG1/MPEG2 discs and files

- CDs recorded in the ISO 9660 format are playable (except CDs recorded in the “packet write” format (UDF format)).
- CDs recorded with multiple sessions are also playable.
- Files with an extension of “.mp3”, “.wma”, “.jpg”, “.jpeg”, “.asf”, “.divx”, “.div”, “.avi”, “.mpg” or “.mpeg” (extensions with uppercase and lowercase letters mixed are also acceptable) are playable.

Notes on MP3/WMA/JPEG/ASF discs and files

- A disc may not be played back, or reading it may take a long time depending on its recording conditions or properties.
- The time needed for reading varies with the number of groups or tracks (files) recorded on the disc.
- If a character other than single byte English characters is used in the file name of an MP3/WMA/JPEG/ASF file, the track/file name will not be displayed correctly.
- The order of tracks/groups displayed on the MP3/WMA control screen, and the order of files/groups displayed on the JPEG control screen may be different from that of files/folders displayed on a computer monitor screen.
- A commercially available MP3/WMA disc may be played back in an order different from that indicated on the label attached to the disc.
- Playing back an MP3/WMA/JPEG/ASF disc may take a long time. The elapsed time is not displayed until playback starts. The elapsed time may also not be displayed correctly.
- For an MP3/WMA file, a disc with a sampling frequency of 44.1 kHz and transmission rate of 128 kbps is recommended.
- This system can play back a baseline JPEG file, excluding monochromatic JPEG files.
- This system can play back JPEG data taken with a digital camera conforming to the DCF (Design Rule for Camera File System) standard (when a function such as the automatic image rotation function of a digital camera is applied, the data no longer complies with the DCF standard, so the image may not be displayed).
- If data has been processed, edited and restored with computer image editing software, the data may not be displayed.
- This system cannot play back animations such as MOTION JPEG, still images (TIFF etc.) other than JPEG, or image data with sound.
- The resolution of 640 x 480 pixels is recommended for JPEG files. If a file has been recorded at a resolution of more than 640 x 480 pixels, display may take a long time. An image with a resolution of more than 8 192 x 7 680 pixels cannot be displayed.
- The system supports ASF files recorded with the maximum bit rate of 384 kbps and an audio coder decoder of G.726.
- The maximum size of the playback picture is 352 x 288 pixels (CIF).

Notes on DivX discs and files

- The system supports DivX 5.x, 4.x and 3.11.
- The system supports DivX files with a resolution of 720 x 480 pixels or less (30 fps) and 720 x 576 pixels or less (25 fps).
- Audio stream should conform to MPEG1 Audio Layer-2 or MPEG Audio Layer-3 (MP3).
- The system does not support GMC (Global Motion Compression).
- Files encoded in the interlaced scanning mode may not be played back correctly.
- Playing back a DivX disc may take a long time. The elapsed time is not displayed until playback starts. The elapsed time may also not be displayed correctly.

Notes on MPEG1/MPEG2 discs and files

- The stream structure of MPEG1/MPEG2 discs and files should conform to MPEG system/program stream.
- 720 x 576 pixels (25 fps)/720 x 480 pixels (30 fps) is recommended for the highest resolution.
- This system also supports the resolutions of 352 x 576/480 x 576/352 x 288 pixels (25 fps) and 352 x 480/480 x 480/352 x 240 pixels (30 fps).
- The profile and level should be MP@ML (Main Profile at Main Level)/SP@ML (Simple Profile at Main Level)/MP@LL (Main Profile at Low Level).
- Audio streams should conform to MPEG1 Audio Layer-2 or MPEG2 Audio Layer-2.

Caution for DualDisc playback:

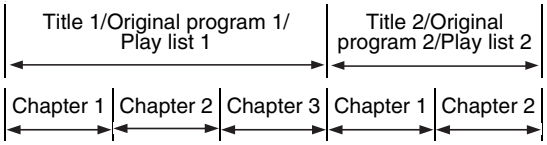
The Non-DVD side of a “DualDisc” does not comply with the “Compact Disc Digital Audio” standard. Therefore, the use of Non-DVD side of a DualDisc on this product may not be recommended.

Disc structure

DVD VIDEO/DVD VR

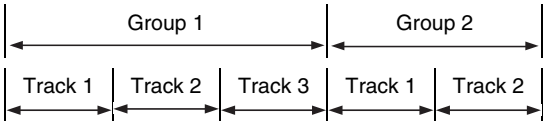
A DVD VIDEO consists of “titles” and each title may be divided into “chapters”.

A DVD VR consists of “original programs” or “play lists” and each original program/play list may be divided into “chapters”.



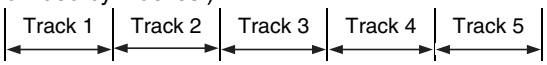
DVD AUDIO

A DVD AUDIO consists of “groups” and each group may be divided into “tracks”.
Some discs include a “bonus group” that requires a password for playback (☞ page 37).



VCD/SVCD/CD

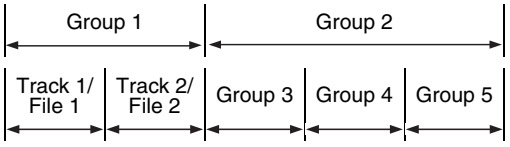
VCD, SVCD and CD consist of “tracks”.
In general, each track has its own track number. (On some discs, each track may also be further divided by indexes.)



MP3/WMA/JPEG/ASF/DivX/MPEG1/MPEG2 discs

On an MP3/WMA/JPEG/ASF/DivX/MPEG1/MPEG2 disc, each still picture (material) is recorded as a track/file. Tracks/files are usually grouped into a folder. Folders can also include other folders, creating hierarchical folder layers.

This system simplifies the hierarchical construction of a disc and manages folders by “groups”.



This system can recognize up to 4 000 tracks/files in a disc. Also, the system can recognize up to 150 tracks/files per group and up to 99 groups in a disc. Since the system ignores tracks/files with numbers exceeding 150 and groups with numbers exceeding 99, these cannot be played back.

- If there is any type of files other than MP3/WMA/JPEG/ASF/DivX/MPEG1/MPEG2 files in a folder, those files are also counted in the total file number.

Troubleshooting

When you encounter a problem that seems to be a fault, check the following points before contacting the JVC service center:

Power source

■ **Power does not come on.**
- The power cord of the receiver or the DVD player is not connected to an AC outlet.
  → Connect the power cord correctly. (☞ page 13)

Operation

■ **You cannot operate any button.**
- Some specific operations may be restricted for some discs.

■ **The remote control does not work.**
- The batteries have run out.
  → Replace the batteries. (☞ page 5)
- The remote control mode selector is slid to wrong position.
  → Most of the buttons on the remote control are assigned to specific remote control modes. Slide the remote control selector to the proper position referring to the explanation of each function.

■ **A disc cannot be played back.**
- In the case of DVD VIDEOs
  → Check the Region Code number of the disc. (☞ page 49)
- "PLAYABLE Err" is displayed in the display window.
  The disc cannot be played back on this DVD player.
  → Check the disc type. (☞ pages 49 and 50)

■ **MP3, WMA, JPEG, ASF, DivX, MPEG1 or MPEG2 files cannot be played back.**
- The loaded disc may include files of different types (MP3, WMA, JPEG, ASF, DivX, MPEG1 or MPEG2). You can play back only the files of the types selected with "FILE TYPE". (☞ page 42)

Images

■ **No picture appears.**
- The SCART cord is not connected correctly.
  → ☞ page 12

■ **The picture is distorted.**
- A video cassette recorder is connected between the DVD player and the TV.
  → Connect the DVD player directly to the TV. (☞ page 13)

■ **The screen size is abnormal.**
- The screen size is not set correctly.
  → Set "MONITOR TYPE" according to the TV you are using. (☞ page 42)

■ **The TV screen darkens.**
- "SCREEN SAVER" is set to "ON".
  → Press any button. (☞ page 42)

Sound

■ **There is no sound.**
- Speakers are not connected correctly.
  → ☞ page 9
- The receiver and the DVD player are not connected correctly.
  → ☞ page 10
- The sound is muted.
  → ☞ page 16
- "NO AUDIO" is displayed in the display window.
  The disc may have been produced through illegal copying.
  → Check the disc at the store where you bought the disc.

■ **The sound is distorted.**
- The volume is turned up too high.
  → Turn down the volume. (☞ page 16)

■ **No sound comes out of the subwoofer.**
- "S. WOOFER OFF" is selected.
  → Press **S.WFR OUT** repeatedly until "S. WOOFER ON" appears. (☞ page 11)

Radio

■ **The sound has a lot of static./You cannot receive a radio broadcast.**
- The antenna is not connected correctly.
  → Connect the antenna correctly. (☞ pages 7 and 8)

(Continued on the next page)

Other

■ **You cannot switch audio or subtitles between languages.**

- The disc does not contain multiple languages.
  → If only a single language is recorded on the disc, you cannot switch the current language to another language. (☞ page 35)

■ **No subtitle is displayed.**

- The disc does not contain any subtitles.
  → A DVD VIDEO without subtitles cannot display any subtitles.
- The subtitle language is set to "OFF".
  → Specify a language. (☞ page 41)
- Before or after point A or B in A-B repeat playback, no subtitle may be displayed.

■ **The disc cannot be ejected.**

- DVD/CD ejection is locked.
  → ☞ page 31

■ **"LR ONLY" is displayed in the display window (for a DVD AUDIO).**

- This is not a malfunction. When a down mix prohibited track is played back for multi-channel sound, the left and right sounds are output directly as they are.

■ **The tweeters produce no sound.**

- "Single Amp" is selected on the receiver.
  → Select "Bi-Amp". (☞ page 11)

If the system does not work properly despite correction measures aforementioned

Many functions of this system are controlled by microprocessors that can be reset by recycling the power supply. If pressing any button does not result in the normal action, disconnect the power cord from the outlet, wait for a while, and connect the power cord again.

Language codes

Code	Language	Code	Language
AA	Afar	MK	Macedonian
AB	Abkhazian	ML	Malayalam
AF	Afrikaans	MN	Mongolian
AM	Ameharic	MO	Moldavian
AR	Arabic	MR	Marathi
AS	Assamese	MS	Malay (MAY)
AY	Aymara	MT	Maltese
AZ	Azerbaijani	MY	Burmese
BA	Bashkir	NA	Nauru
BE	Byelorussian	NE	Nepali
BG	Bulgarian	NL	Dutch
BH	Bihari	NO	Norwegian
BI	Bislama	OC	Occitan
BN	Bengali, Bangla	OM	(Afan) Oromo
BO	Tibetan	OR	Oriya
BR	Breton	PA	Panjabi
CA	Catalan	PL	Polish
CO	Corsican	PS	Pashto, Pushto
CS	Czech	PT	Portuguese
CY	Welsh	QU	Quechua
DA	Danish	RM	Rhaeto-Romance
DZ	Bhutani	RN	Kirundi
EL	Greek	RO	Rumanian
EO	Esperanto	RU	Russian
ET	Estonian	RW	Kinyarwanda
EU	Basque	SA	Sanskrit
FA	Persian	SD	Sindhi
FI	Finnish	SG	Sangho
FJ	Fiji	SH	Serbo-Croatian
FO	Faroese	SI	Singhalese
FY	Frisian	SK	Slovak
GA	Irish	SL	Slovenian
GD	Scots Gaelic	SM	Samoan
GL	Galician	SN	Shona
GN	Guarani	SO	Somali
GU	Gujarati	SQ	Albanian
HA	Hausa	SR	Serbian
HI	Hindi	SS	Siswati
HR	Croatian	ST	Sesotho
HU	Hungarian	SU	Sundanese
HY	Armenian	SV	Swedish
IA	Interlingua	SW	Swahili
IE	Interlingue	TA	Tamil
IK	Inupiak	TE	Telugu
IN	Indonesian	TG	Tajik
IS	Icelandic	TH	Thai
IW	Hebrew	TI	Tigrinya
JI	Yiddish	TK	Turkmen
JW	Javanese	TL	Tagalog
KA	Georgian	TN	Setswana
KK	Kazakh	TO	Tonga
KL	Greenlandic	TR	Turkish
KM	Cambodian	TS	Tsonga
KN	Kannada	TT	Tatar
KO	Korean (KOR)	TW	Twi
KS	Kashmiri	UK	Ukrainian
KU	Kurdish	UR	Urdu
KY	Kirghiz	UZ	Uzbek
LA	Latin	VI	Vietnamese
LN	Lingala	VO	Volapuk
LO	Laothian	WO	Wolof
LT	Lithuanian	XH	Xhosa
LV	Latvian, Lettish	YO	Yoruba
MG	Malagasy	ZU	Zulu
MI	Maori		

Specifications

Receiver (RX-EXA10)

Tuner
FM frequency: 87.50 MHz - 108.00 MHz
AM frequency: 522 kHz - 1 629 kHz

Amplifier
Output power (Tweeter): 20 W + 20 W
at 6 Ω (10 kHz, THD 10 %)
Output power (Woofer): 30 W + 30 W
at 6 Ω (1 kHz, THD 10 %)

Terminal
- Synchronization terminal x 1 (for connecting XV-EXA10)
- Optical digital input terminal x 1 (for connecting XV-EXA10)
  -21 dBm to -15 dBm
- Audio input terminals (2) x 1 (for connecting XV-EXA10)
  500 mV/50 k Ω
- Audio output speaker terminals (2) x 4
  Impedance: 6 Ω
- FM antenna terminal x 1
- AM antenna terminal x 1
- Audio output subwoofer terminal x 1
  500 mVrms/10 k Ω
- Optical digital input terminal x 1 (for connecting other equipment)
  -21 dBm to -15 dBm
- Audio input terminals (2) x 1 (for connecting other equipment)
  Level 1: 500 mV/50 k Ω
  Level 2: 250 mV/50 k Ω
- Audio output headphone terminal x 1
  11 mW/32 Ω (Impedance: 16 Ω to 1 k Ω)

General
Power source: AC 230 V ∿, 50 Hz
Power consumption: 30 W (in operation)
0.9 W (on standby)
Dimensions (W x H x D): 245 mm x 80 mm x 297 mm
Weight (1 unit): 2.7 kg

Speakers (SP-EXA10)

Type: 2-way bass-reflex type
Magnetically shielded type
Tweeter: 2 cm wood dome
Woofer: 10.5 cm wood cone
Power handling capacity: 20 W
(Tweeter)
Power handling capacity: 30 W
(Woofer)
Impedance: 6 Ω
Sound pressure level: 82 dB/W•m
Dimensions (W x H x D): 143 mm x 257 mm x 243 mm
Weight (1 unit): 3.5 kg

DVD player (XV-EXA10)

Playable DVDs/CDs
DVD VIDEO/DVD AUDIO
VCD/SVCD/CD
CD-R/RW (VCD/SVCD/CD/MP3/WMA/JPEG/DivX/ASF/MPEG1/MPEG2 format)
DVD-R (MP3/WMA/JPEG/DVD VIDEO/DVD VR [CPRM]/DivX/ASF/MPEG1/MPEG2 format)
DVD-RW (MP3/WMA/JPEG/DVD VIDEO/DVD VR [CPRM]/DivX/ASF/MPEG1/MPEG2 format)

Terminal
- Synchronization terminal x 1 (for connecting RX-EXA10)
- Optical digital output terminal x 1 (for connecting RX-EXA10)
  -21 dBm to -15 dBm
- Audio output terminals (2) x 1 (for connecting RX-EXA10)
- SCART terminal x 1
- Component video output terminals (3)
  Y: 1.0 Vp-p, sync negative, 75 Ω terminated
  P_B: 0.7 Vp-p, 75 Ω terminated
  P_R: 0.7 Vp-p, 75 Ω terminated
- AV COMPU LINK terminal x 1 (for future use)

General
Power source: AC 230 V ∿, 50 Hz
Power consumption: 9 W (in operation)
0.9 W (on standby)
Dimensions (W x H x D): 245 mm x 80 mm x 270 mm
Weight (1 unit): 2.2 kg

Designs and specifications are subject to change without notice.

EX-A10 COMPACT COMPONENT SYSTEM

JVC

EN

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0905SKMMODJEM

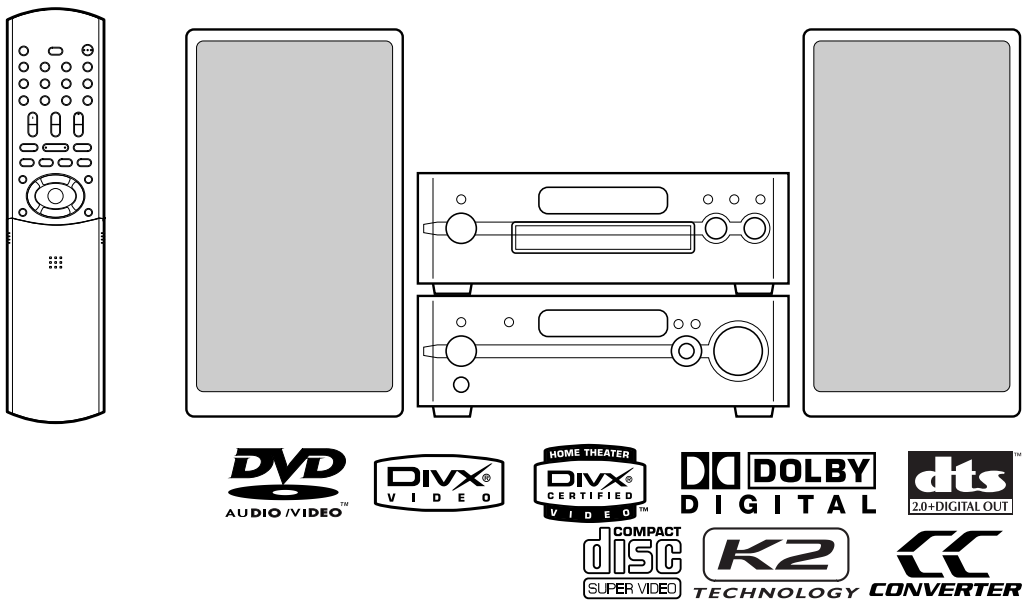
English

JVC

COMPACT COMPONENT SYSTEM

EX-A10

Consists of RX-EXA10, SP-EXA10 and XV-EXA10



INSTRUCTIONS

LVT1403-011A
[A, US, UN, UB, UW, UG]

CAUTION

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

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

CAUTION – ⏻/I button!

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

The ⏻/I button in any position does not disconnect the mains line.

- When the system is on standby, the STANDBY lamp lights red.
- When the system is turned on, the STANDBY lamp goes off. The power can be remote controlled.

CAUTION

- Do not block the ventilation openings or holes. (If the ventilation openings or holes are blocked by a newspaper or cloth, etc., the heat may not be able to get out.)
- Do not place any naked flame sources, such as lighted candles, on the apparatus.
- When discarding batteries, environmental problems must be considered and local rules or laws governing the disposal of these batteries must be followed strictly.
- Do not expose this apparatus to rain, moisture, dripping or splashing and that no objects filled with liquids, such as vases, shall be placed on the apparatus.

IMPORTANT FOR LASER PRODUCTS

1. CLASS 1 LASER PRODUCT
2. **CAUTION:** Do not open the top cover. There are no user serviceable parts inside the unit; leave all servicing to qualified service personnel.
3. **CAUTION:** Visible and invisible laser radiation when open and interlock failed or defeated. Avoid direct exposure to beam.
4. REPRODUCTION OF LABEL: CAUTION LABEL, PLACED INSIDE THE UNIT.

CAUTION : Visible and invisible laser radiation when open and interlock failed or defeated. AVOID DIRECT EXPOSURE TO BEAM. (e)	**ADVARSEL :** Synlig og usynlig laserstråling når maskinen er åben eller interlocken fejler. Undgå direkte eksponering til stråling. (d)	**VARNING :** Synlig och osynlig laserstrålning när den öppnas och spärren är urkopplad. Betrakta ej strålen. (s)	**VARO :** Avattaessa ja suojalukitus ohitettuna tai viallisena olet alttiina näkyvälle ja näkymättömälle lasersäteilylle. Vältä säteen kohdistumista suoraan itseesi. (f)

CAUTION – Proper Ventilation

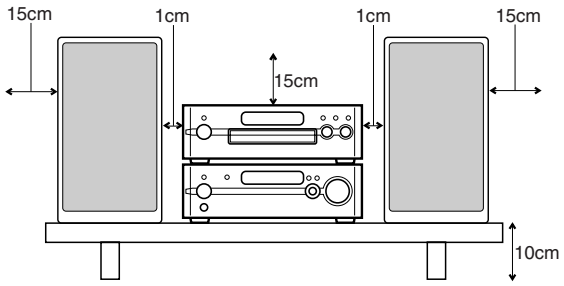
To avoid risk of electric shock and fire and to protect from damage, locate the apparatus as follows:

Top/Front/Back/Sides: No obstructions should be placed in the areas shown by the dimensions below.

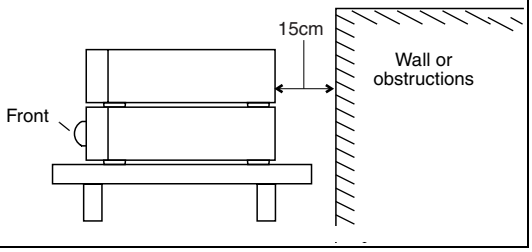
Bottom: Place on the level surface. Maintain adequate air path for ventilation by placing on a stand with a height of 10 cm more.

In addition, maintain the best possible air circulation.

Front view



Side view



[European Union only]

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Supplied accessories

Check to be sure you have all of the supplied accessories.
The number in parentheses is the quantity of the items supplied. If anything is missing, contact your dealer immediately.

- Remote control (1)
- Batteries (2)
- FM antenna (1)
- AM loop antenna (1)
- Speaker cords (4)
- Audio cord (1)
- Optical digital cord (1)
- Synchronization cord (1)
- Composite video cord (1)
- AC plug adaptor* (2)

NOTE

** The AC plug adaptor is not supplied for Australia, Hong Kong and Middle Eastern countries.*

CAUTION

- **Do not fold the optical digital cord as this may damage the inner wire.**

How to read this manual

- This manual explains the operations assuming that you will use the remote control. Some buttons on the receiver or the DVD player are the same as those on the remote control. You can use either button in this case.
- Some diagrams in this manual are simplified or exaggerated for the purpose of explanation.
- You can operate some functions differently from the explanation given in this manual.
- The following marks refer to the usable discs for the explained function.

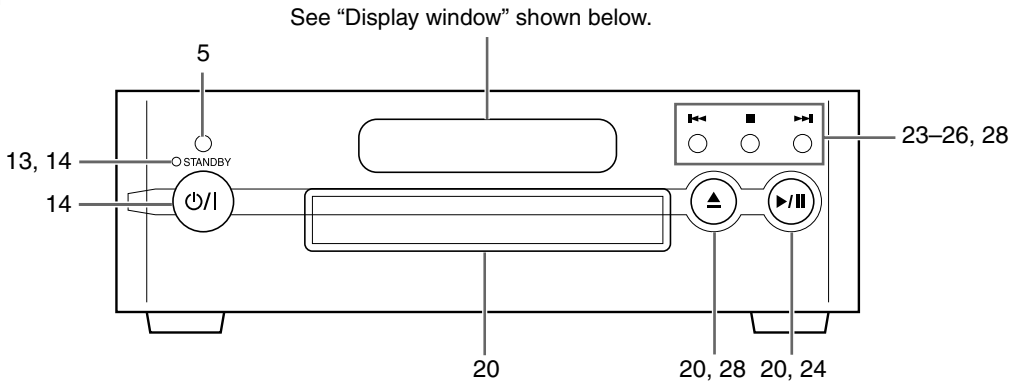
- "DVD VR" means a DVD recorded in DVD Video Recording (DVD VR) format.
- "VCD" stands for "Video Compact Disc".
- "SVCD" stands for "Super Video Compact Disc".
- An "ASF" disc means a disc recorded in "Advanced Systems Format".

Part description

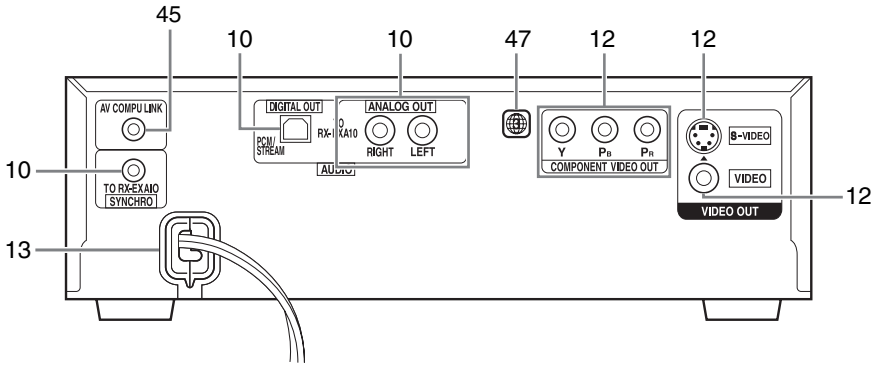
The numbers refer to the pages in which the parts are explained.

DVD player

Front panel

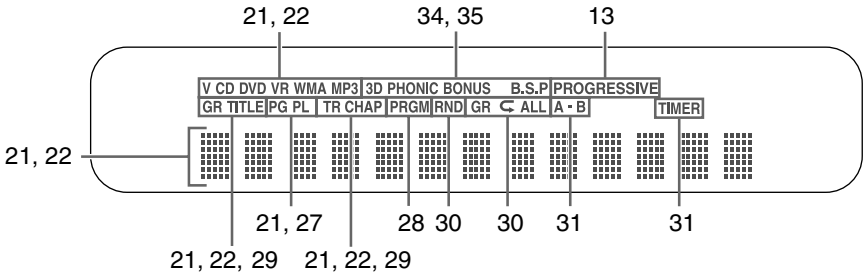


Rear panel



Display window

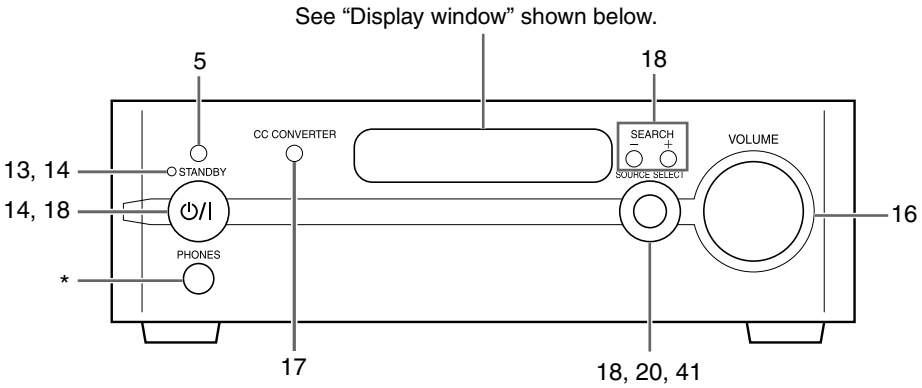
The receiver and the DVD player use the same design for their display windows.



The numbers refer to the pages in which the parts are explained.

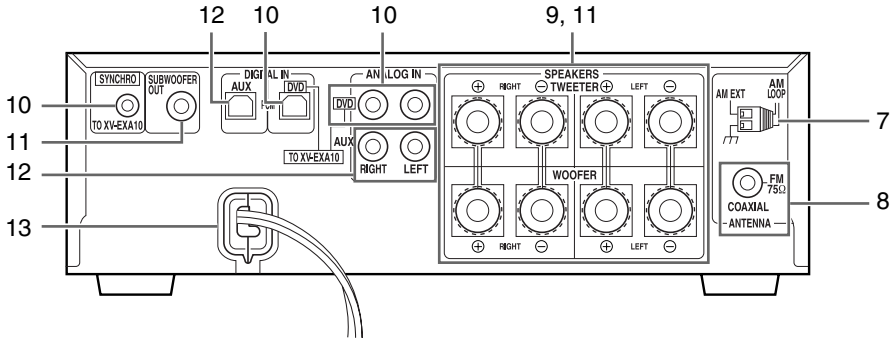
Receiver

Front panel



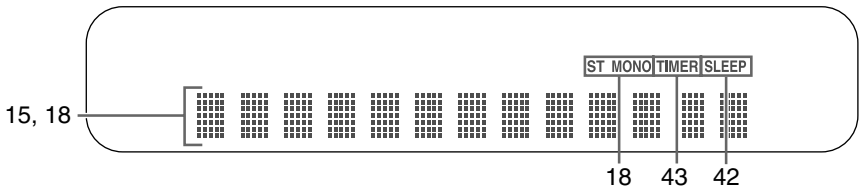
* This terminal is for connecting a pair of headphones equipped with a stereo plug (not supplied). When the headphones are connected, the speakers do not produce any sound.

Rear panel



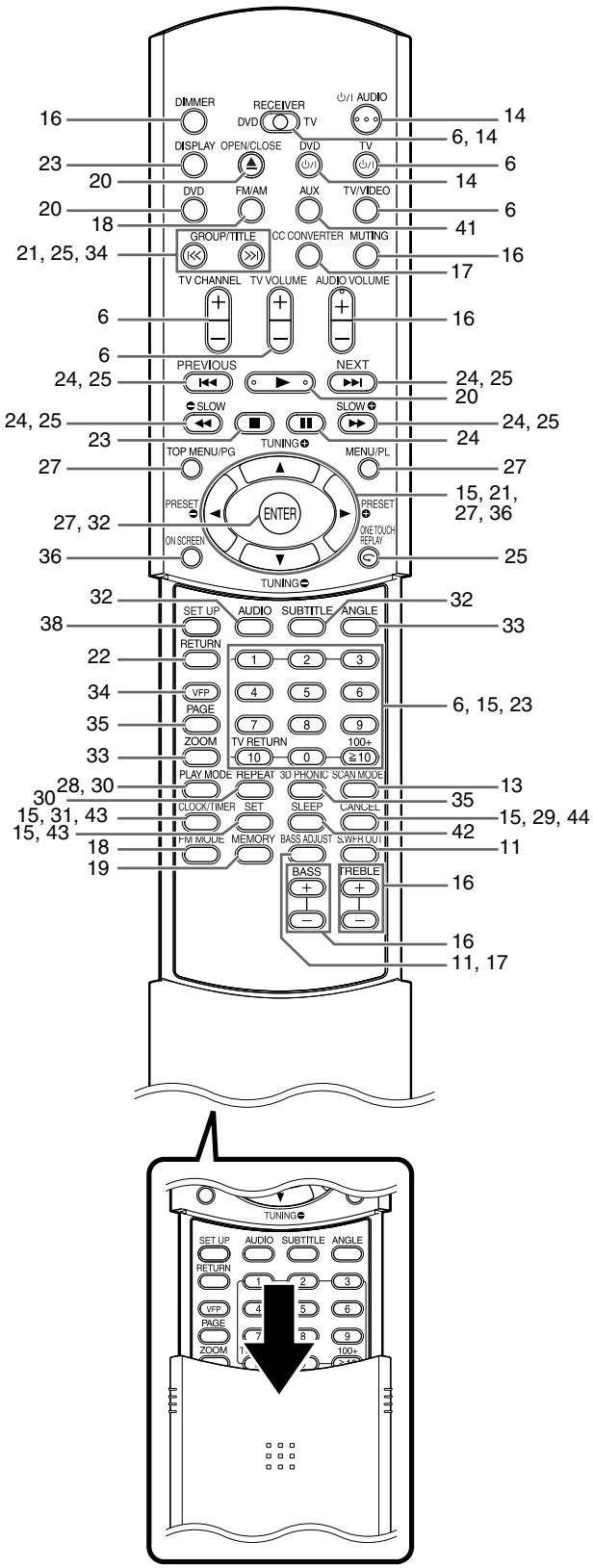
Display window

The receiver and the DVD player use the same design for their display windows.

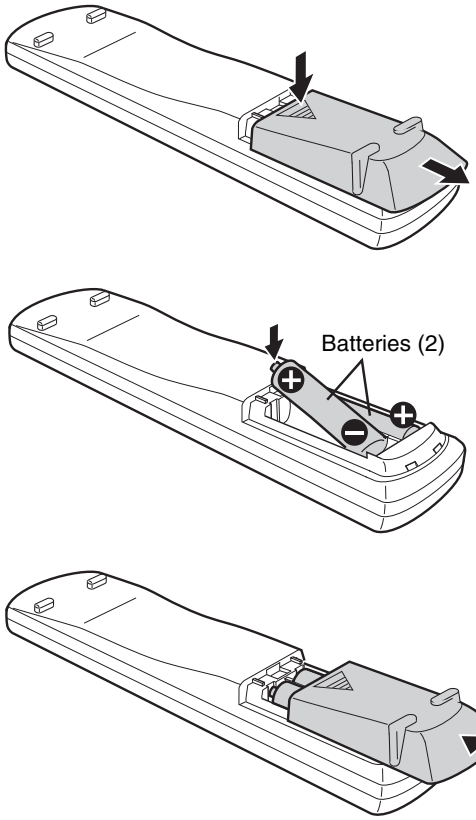


Using the remote control

The numbers refer to the pages in which the parts are explained.



Inserting batteries into the remote control



If the effective distance between the remote control and remote control sensor on the receiver or the DVD player decreases, replace the batteries. Use two R6P (SUM-3)/AA(15F) type dry-cell batteries.

CAUTION

- **Do not use a used battery and a new battery together.**
- **Do not use different types of batteries at the same time.**
- **Take out the batteries if the remote control is not to be used for a long time. Otherwise it may cause a leakage.**

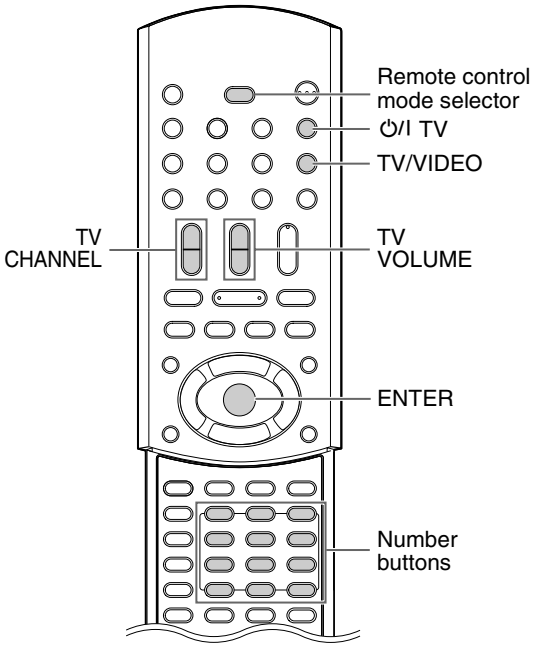
Remote control operation

When operating the remote control, point it at the front panel of the receiver or the DVD player. If the remote control is operated from a direction that is extremely oblique or when there is an obstacle in the way, signals may not be transmitted.

If the remote control sensor is exposed to a strong light such as direct sunlight, correct operation may not be carried out.

Operating the TV using the remote control

You can operate your TV using the remote control of this system.



Setting the manufacturer code

1 Slide the remote control mode selector to TV.

2 Hold down ⏻/I TV.

- Hold down ⏻/I **TV** until you finish step 4.

3 Press ENTER and release.

4 Press number buttons (1-9, 0).

- Refer to “Using the number buttons” (☞ page 15).

Examples:

For a Hitachi TV: Press 1, then 0.
For a Toshiba TV: Press 0, then 8.

When the manufacturer of your TV has two or more codes, select the manufacturer codes in turn and find the one that operates the TV and the remote control properly.

Manufacturer	Code	Manufacturer	Code
JVC	01	Samsung	12
Hitachi	10	Sanyo	13
Magnavox	02	Sharp	06
Mitsubishi	03	Sony	07
Panasonic	04, 11	Toshiba	08
Philips	14	Zenith	09
RCA	05		

NOTE

- *A manufacturer code is subject to change without notice. You may not be able to operate the TV produced by the manufacturer.*

5 Release ⏻/I TV.

Using the remote control for the TV operation

Operate the remote control by pointing it at the TV.

TV ⏻/I	Turns on/off the TV.	
TV CHANNEL + −	Changes the channels.	
TV VOLUME + −	Adjusts the volume.	
1 ~ 9 / 0 / 100+ ≥10	RECEIVER DVD TV *1	Selects the channels.
TV RETURN ↩	RECEIVER DVD TV *1	Switches the previously selected channel and the current channel.
TV/VIDEO	Switches the TV and video input.	

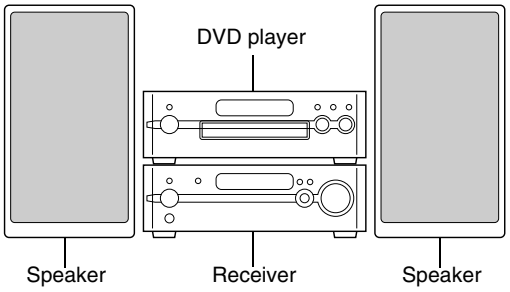
*1 Make sure to slide the remote control mode selector to **TV** in advance.

NOTE

- *After replacing the batteries of the remote control, set the manufacturer code again.*
- *When the remote control mode selector is slid to* **TV***, some buttons may not work.*

Do not turn on the power until you complete the connection.

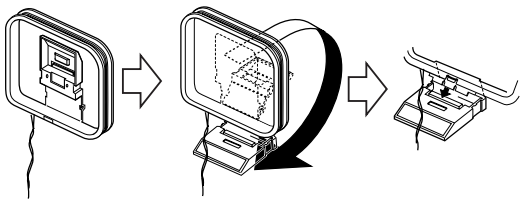
Standard setup



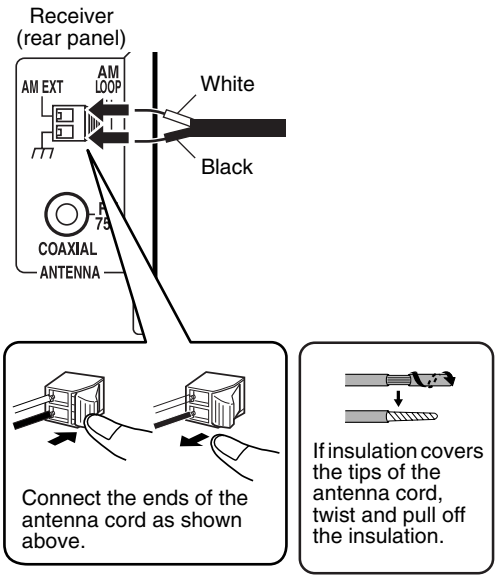
Connecting the antennas

Connecting the AM loop antenna (supplied)

1 Set up the AM loop antenna.



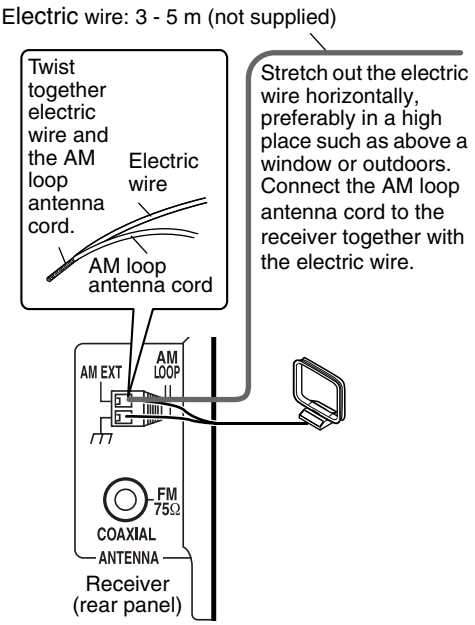
2 Connect the antenna cord.



3 Turn the AM loop antenna to find the best position for radio reception.
Place the AM loop antenna as far from the receiver as possible.

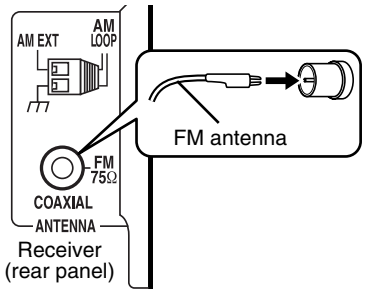
- Do not place the AM loop antenna on a metallic table or close to a TV, computer, or other electric appliances. Doing so may affect radio reception.

■ When radio reception with the supplied AM loop antenna is poor

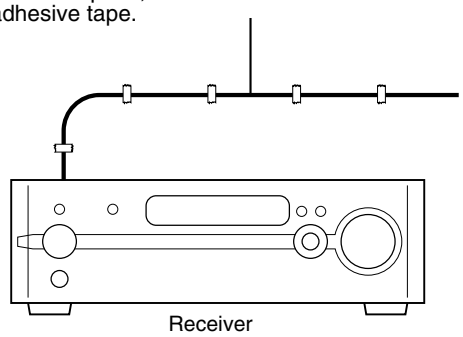


When positioning the antennas, find the best position for reception while listening to an actual radio program (refer to “Listening to radio broadcasts” (☞ page 18)).

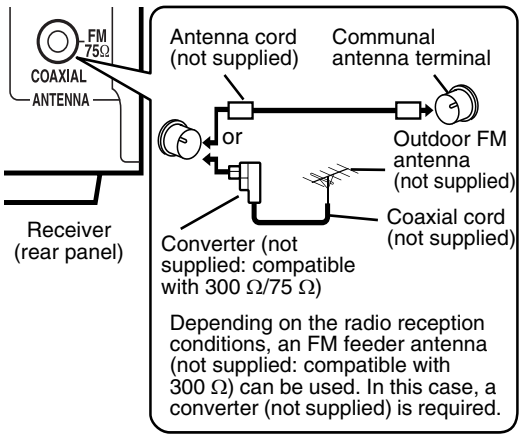
Connecting the FM antenna (supplied)



Stretch out the FM antenna to the best position for radio reception, and then fix the FM antenna with adhesive tape.



■ When radio reception with the supplied FM antenna is poor, or when using a communal antenna



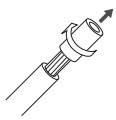
When using an antenna other than those supplied with this system, refer to the operation manuals for the antenna and converter for details of connection.

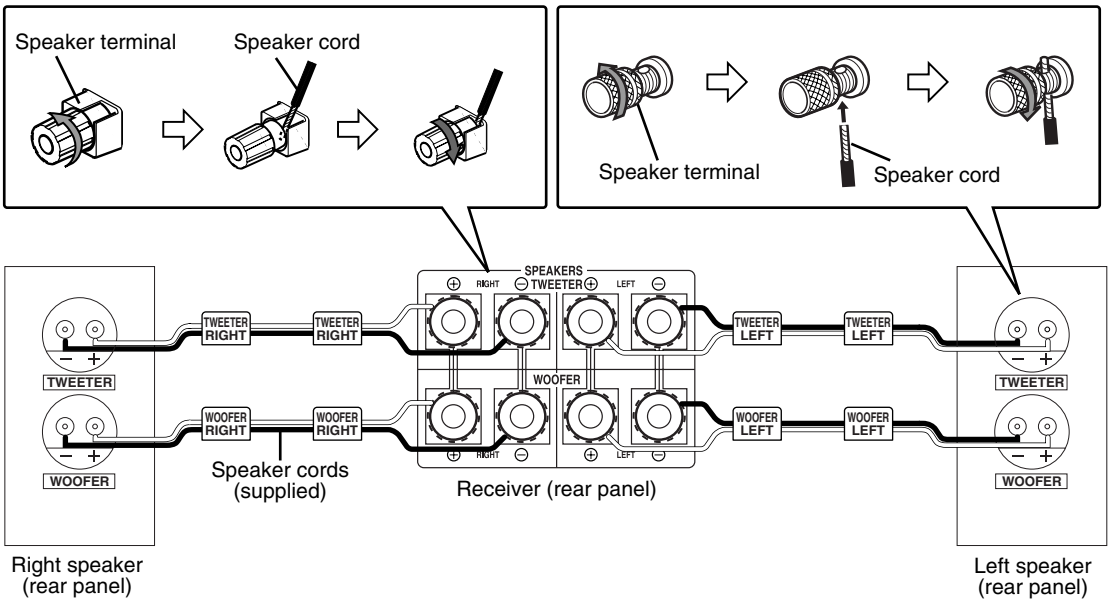
When positioning the antennas, find the best position for reception while listening to an actual radio program (refer to “Listening to radio broadcasts” (☞ page 18)).

Connecting the speakers

There is no difference between the left and right speakers.

Before connecting the speaker cords, twist and pull off the insulation.





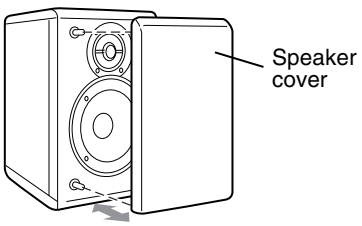
- An incorrect connection may damage the speakers.
- The supplied speakers are dedicated to the supplied receiver as parts of the EX-A10 system. Do not connect the supplied speakers to equipment other than the supplied receiver. Doing so may damage the speakers.

CAUTION

- **Do not short-circuit the ⊕ and ⊖ speaker terminals. Doing so may damage the receiver.**
- **Do not connect other speakers together with the supplied speakers. The change in impedance may damage the receiver and the speakers.**
- **Improper speaker cord connection spoils the stereo effect and sound quality.**
- **The supplied speakers are magnetically shielded, but color irregularity may occur on the TV depending on some conditions. To prevent color irregularity, set up the speakers following the instructions below.**
  1. **Turn off the main power of the TV before setting up the speakers.**
  2. **Place the speakers enough distance from the TV so that they do not cause color irregularity on the TV.**
  3. **Wait for about 30 minutes before turning on the main power of the TV again.**

The speakers employ natural wood for the diaphragm and the cabinet in order to reproduce the original sound faithfully. The appearance will therefore be different for each system.

You can detach the speaker cover.

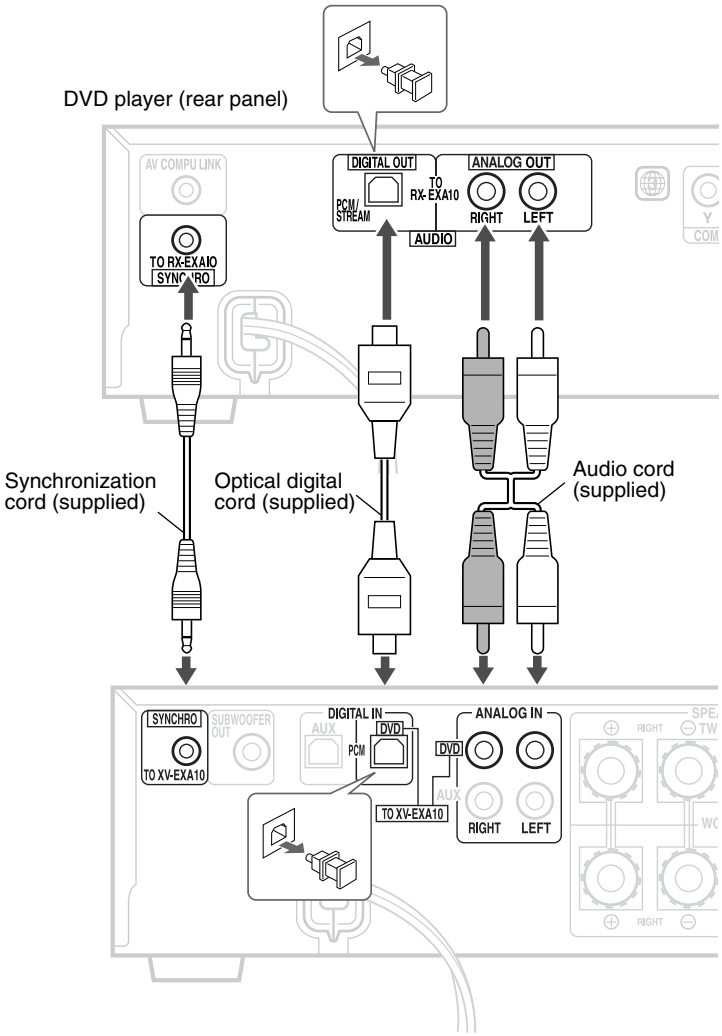


NOTE

- *To allow the receiver and the DVD player to emit generated heat, leave a space of at least 1 cm between the receiver or the DVD player and the speakers or other objects.*

Connecting the receiver and the DVD player

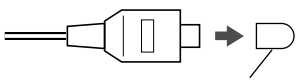
Make sure to connect the three supplied cords.



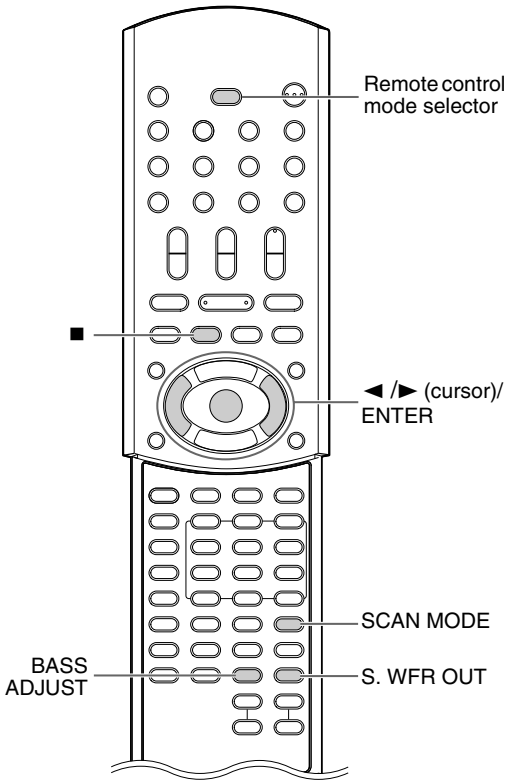
CAUTION

- **Do not fold the optical digital cord as this may damage the inner wire.**

If protection caps cover the tips of the optical digital cord, pull off the protection caps before connecting.



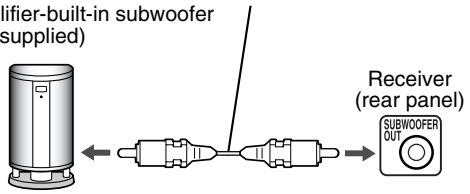
Connecting other equipment



Connecting the subwoofer

When you connect this system with an amplifier-built-in subwoofer (not supplied), you can enjoy a more dynamic bass sound. Refer to the manual of the subwoofer for details.

Audio cord (not supplied)
(If an audio cord comes with the amplifier-built-in subwoofer, you can use the audio cord.)



To produce sound from the subwoofer, press **S.WFR OUT** on the remote control to display "S. WOOFER ON" (Subwoofer on) in the display window on the receiver. Each time you press **S.WFR OUT**, the display toggles between "S. WOOFER ON" and "S. WOOFER OFF".

NOTE

- *When "S. WOOFER ON" is selected, bass sound from the left and right speakers will be automatically turned down and the bass sound will be emitted mainly from the subwoofer.*

Connecting other speakers

To connect speakers other than the ones supplied, follow the operations shown below.

1 Slide the remote control mode selector to RECEIVER.

2 Connect the speakers to the SPEAKERS WOOFER LEFT and RIGHT terminals on the receiver.

3 Hold down BASS ADJUST for 2 or more seconds.

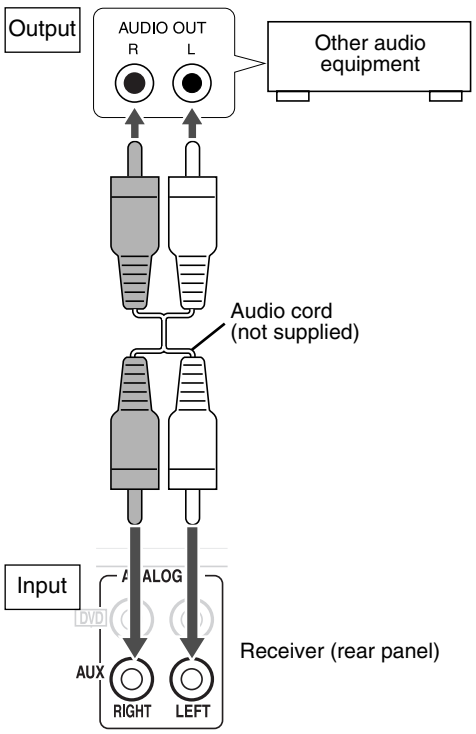
- "Single Amp" is displayed in the display window on the receiver, and no audio signal is sent to the SPEAKERS TWEETER LEFT and RIGHT terminals.

Display on the receiver

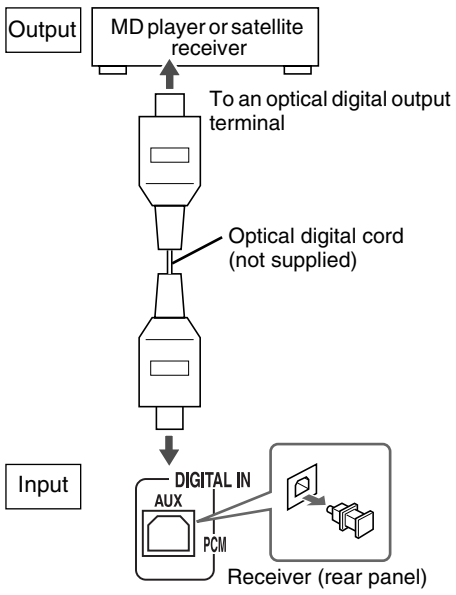
NOTE

- *The impedance of speakers connected to this system must be within the range 6 Ω to 16 Ω.*
- *When connecting the supplied speakers to the receiver, hold down* **BASS ADJUST** *on the remote control for 2 or more seconds once again to select "Bi-Amp" in the display window on the receiver.*

Connecting other audio equipment

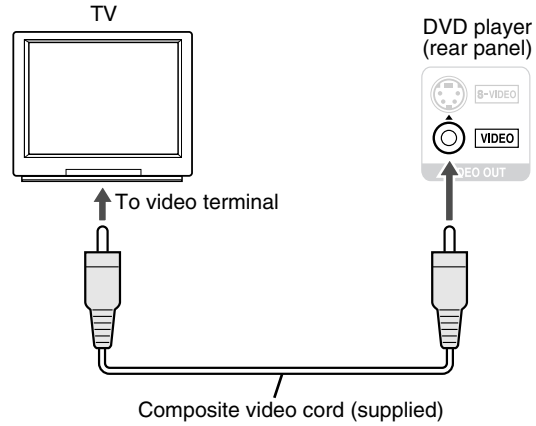


Connecting digital equipment with an optical output terminal

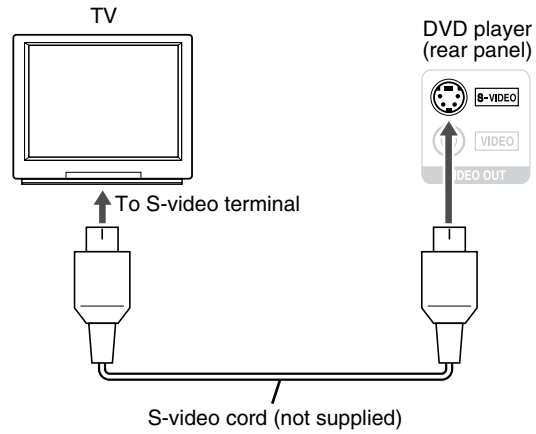


Connecting a TV

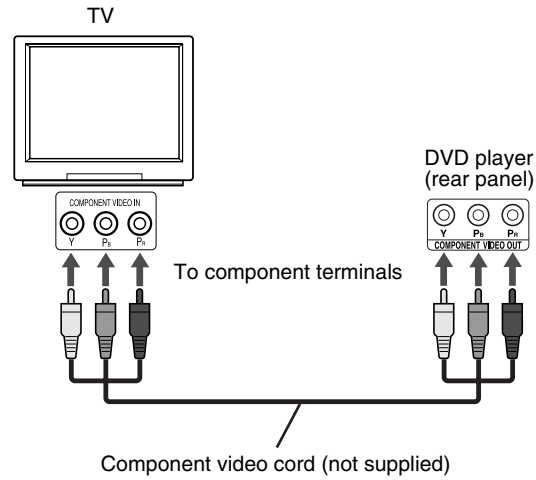
Connecting a TV with the VIDEO terminal



Connecting a TV with the S-VIDEO terminal



Connecting a TV with the COMPONENT VIDEO OUT terminals



Do not turn on the power until you complete the connection.

For the locations of the remote control buttons, refer to page 11.

After connecting the DVD player to the TV, select the video signal type correctly according to the TV.

1 Slide the remote control mode selector to DVD.

2 Make sure that playback stops. (If a disc is being playedd back, press ■ to stop playback.)

3 Press SCAN MODE.

- The current video signal type will flash.

4 Press ◄, ► (cursor) to select the video signal type suitable for the TV.

- You can select “PAL”, “PAL PROG.”, “NTSC” or “NTSC PROG.”. You can obtain better picture quality in “PAL PROG.” or “NTSC PROG.” mode than in “PAL” or “NTSC” mode.
- Select “PAL” when a TV only compatible with PAL interlaced video signals is connected to the DVD player.
- Select “PAL PROG.” when a TV equipped with a component terminal and compatible with PAL progressive video signals is connected to the DVD player.
- Select “NTSC” when a TV only compatible with NTSC interlaced video signals is connected to the DVD player.
- Select “NTSC PROG.” when a TV equipped with a component terminal compatible with NTSC progressive video signals is connected to the DVD player.

5 Press ENTER.

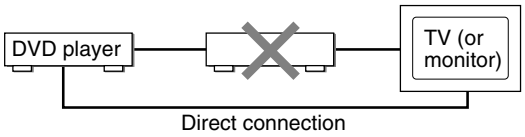
- The selected video signal type is displayed for a short time.

NOTE

- *Although the picture may be distorted when you press* **ENTER***, this is not a malfunction of the system.*
- *There are some progressive TVs and high-definition TVs that are not fully compatible with this system, resulting in an unnatural picture when playing back a DVD VIDEO with progressive scanning. In this case, change the scan mode to “PAL” or “NTSC ”.*
- *To check the compatibility of your TV, contact your local JVC customer service center.*
- *All JVC-manufactured progressive TVs and high-definition TVs are fully compatible with this system.*
- *Even if the power cord of the DVD player is disconnected from the AC outlet or the power is interrupted, the video signal type setting is stored.*

CAUTION

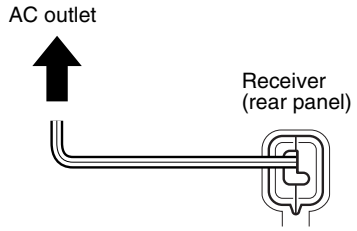
- **Do not connect an S-video cord and a component video cord at the same time. Otherwise pictures may not be played back properly.**
- **Connect the DVD player directly to a TV (or a monitor) without routing through a video cassette recorder (VCR). Otherwise picture distortion may occur during playback.**



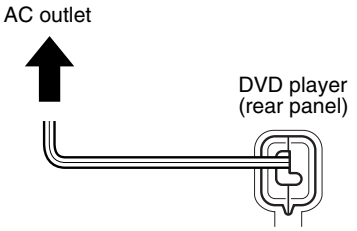
- **Connecting the DVD player to a VCR-built-in-TV may also cause picture distortion during playback.**

Connecting the power cords

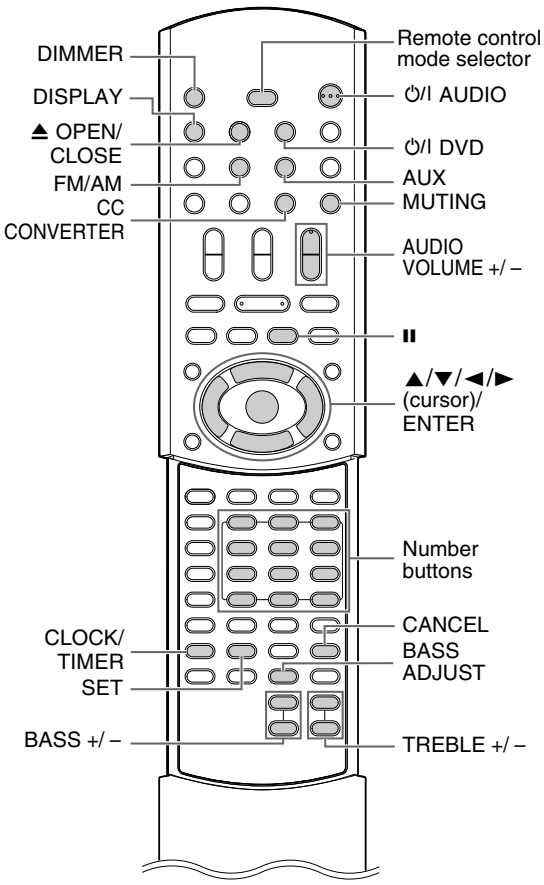
Receiver



DVD player



- Connect the power cords after you complete the other connections.
- The STANDBY lamps on the front panels of the receiver and the DVD player will light up.



Turning on/off the system

Receiver

1 **Slide the remote control mode selector to RECEIVER.**

2 **Press ⏻/I AUDIO (or ⏻/I on the receiver).**

- The power of the receiver will turn on and the STANDBY lamp on the receiver will turn off.
- Press ⏻/I **AUDIO** again to turn off the power of the receiver.
- With the power off, pressing any of the following buttons also turns on the receiver.
  - **DVD**, **FM/AM** or **AUX** on the remote control
  - ►/II on the DVD player

  The function assigned to the button starts working at the same time.

DVD player

1 **Slide the remote control mode selector to DVD.**

2 **Press ⏻/I DVD (or ⏻/I on the DVD player).**

- The power of the DVD player will turn on and the STANDBY lamp on the DVD player will turn off.
- Press ⏻/I **DVD** again to turn off the power of the DVD player.
- With the power off, pressing any of the following buttons also turns on the DVD player.
  - **DVD** or ⏏ **OPEN/CLOSE** on the remote control
  - ⏏ or ►/II on the DVD player

  The function assigned to the button starts working at the same time.
  (When you press **DVD** on the remote control or ►/II on the DVD player, if a disc has been loaded, playback starts automatically.)

Setting the clock

You can set the clock when the receiver is turned either on or off.

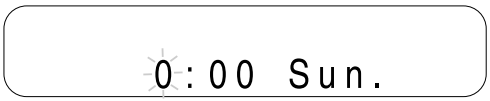
Example:

To set the clock to 10:30 a.m. on Wednesday

1 Slide the remote control mode selector to RECEIVER.

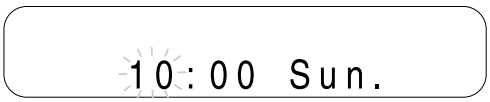
2 Press CLOCK/TIMER.

Display on the receiver

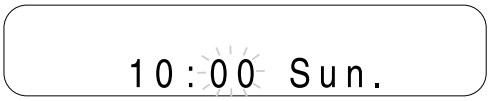


3 Press ◄ or ► (cursor) to select the hour.

- Hold down the button to incrementally increase the hour setting.
- You can also use the number buttons to specify the hour. Refer to “Using the number buttons” shown on the right.



4 Press SET.



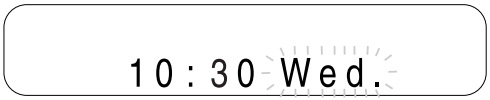
5 Press ◄ or ► (cursor) to select the minute.

- Hold down the button to incrementally increase the minute setting.
- You can also use the number buttons to specify the minute.

6 Press SET.

7 Press ◄ or ► (cursor) to select the day of the week.

- Hold down the button to change the setting for the day of the week.



- Abbreviations are used for the days of the week.
  Sun. → Sunday
  Mon.→ Monday
  Tue. → Tuesday
  Wed.→ Wednesday
  Thu. → Thursday
  Fri. → Friday
  Sat. → Saturday

8 Press SET.

- The clock starts from 0 seconds in the minute you set.

NOTE

- *While setting the clock, you can return to the previous step by pressing* **CANCEL***.*
- *The time display on the receiver is a 24-hour clock.*
- *The clock will gain or lose about 1 minute per month.*
- *If the power cord of the receiver is disconnected from the AC outlet or the power is interrupted, the clock setting is stored for about 1 minute.*
- *You cannot set the clock when “DISPLAY OFF” is selected. (☞ page 16)*

Adjusting the clock

Press CLOCK/TIMER twice to display the clock, and then adjust the clock starting from step 3.

Displaying the clock when using the receiver

Press DISPLAY.

- Refer to “Changing the display in the display window”. (☞ page 23)

Using the number buttons

Examples:

5: (5)

15: (≧10) → (1) → (5)

150: (≧10) → (≧10) → (1) → (5) → (0)

Dimmer

Changing the brightness of the display windows on the receiver and the DVD player

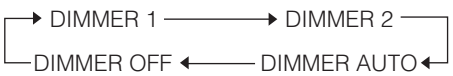
You can set the brightness of the display windows on the receiver and the DVD player respectively.

■ **When the receiver/DVD player is turned on**

1 **Slide the remote control mode selector to RECEIVER or DVD.**

2 **Press DIMMER repeatedly.**

- Each time you press **DIMMER**, the setting changes on the receiver/DVD player.



- For a disc containing video, when you select “DIMMER AUTO”, “DIMMER 2” is automatically selected during video playback and is canceled when the playback stops.
- For a disc containing no video, when you select “DIMMER AUTO”, “DIMMER OFF” is automatically selected during playback and is canceled when the playback stops.

Turning off the display on the receiver

You can also turn off the display on the receiver when the receiver is turned off.

■ **When the receiver is turned off**

1 **Slide the remote control mode selector to RECEIVER.**

2 **Press DIMMER repeatedly.**

- Each time you press **DIMMER**, the setting changes on the receiver.
  DISPLAY ON ⟷ DISPLAY OFF

Adjusting the volume

1 **Slide the remote control mode selector to RECEIVER.**

2 **Press AUDIO VOLUME +/–.**

- The volume can also be adjusted by turning the VOLUME control on the receiver.

Turning off the sound temporarily (MUTING)

1 **Slide the remote control mode selector to RECEIVER.**

2 **Press MUTING.**

- No sound will come out from the speakers, headphones and the subwoofer.
- Press **MUTING** again to restore the sound. When the power is turned off once and turned on again, the sound will also be restored.

Adjusting the sound quality

1 **Slide the remote control mode selector to RECEIVER.**

2 **Bass: Press BASS +/–.**
Treble: Press TREBLE +/–.

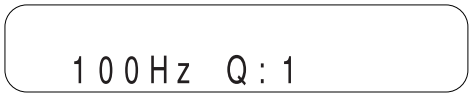
For the locations of the remote control buttons, refer to page 14.

Adjusting the bass sound

1 **Slide the remote control mode selector to RECEIVER.**

2 **Press BASS ADJUST.**

Display on the receiver



3 **While the selectable values are flashing, press ◄ or ► (cursor) to select the value of the bass frequency.**

- You can select “100 Hz”, “120 Hz” or “140 Hz”.
- The initial setting is “100 Hz”. Select the value for your desired bass sound.

4 **While the selectable values are flashing, press ▲ or ▼ (cursor) to select the value of “Q” in the display window.**

- You can select “0.75”, “1” or “1.25”.
- The initial setting is “1”. Select the value for your desired bass sound.

5 **Press ENTER.**

- The selected values are displayed for a short time.

NOTE

- *The adjustment of the bass sound does not change the treble and bass sound level adjustments.*

Enhancing the playback sound (CC CONVERTER)

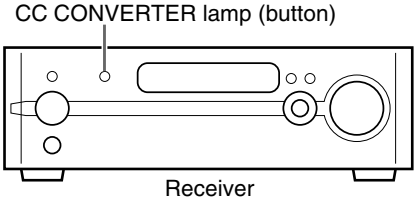
The CC CONVERTER function is designed to provide natural sound by improving the playback sound from low-bit-rate digital sources.

The function compensates for sound waves dissipated during digital recording compression to approximate the original analog sound. Sound is reproduced with more bits (24 bit) and a wider range of frequency (128 kHz, 176.4 kHz or 192 kHz).

1 **Slide the remote control mode selector to RECEIVER.**

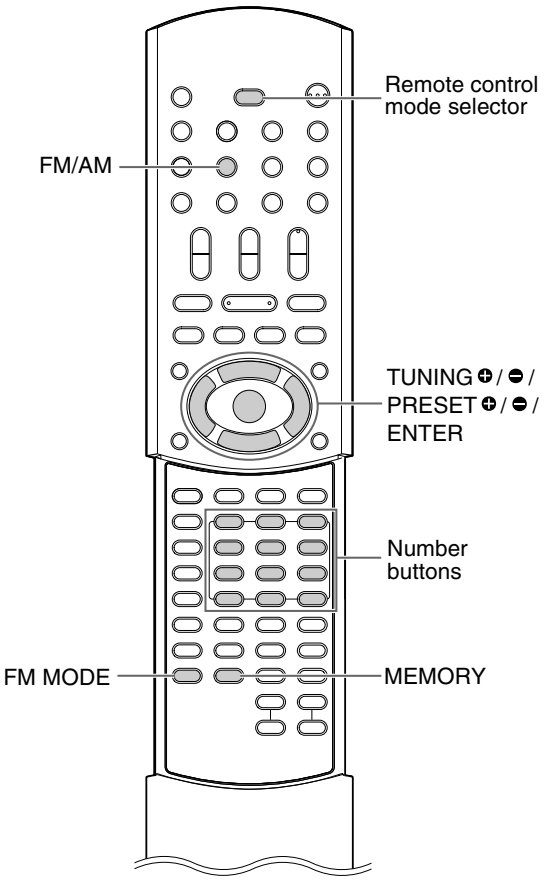
2 **Press CC CONVERTER.**

- When the CC CONVERTER function is activated, the CC CONVERTER lamp (button) on the front panel of the receiver lights up.
- Each time you press **CC CONVERTER**, the display changes as follows.
  - “CC CNVRTR 1”:
    Plays back a digital source with non-compressed sound signals (linear PCM).
  - “CC CNVRTR 2”:
    Plays back a digital source with compressed sound signals (Dolby digital, DTS, MP3 or WMA).
  - “CC CNVRTR OFF”:
    Cancels the CC CONVERTER function.



NOTE

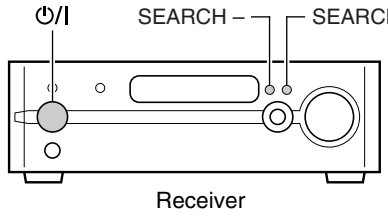
- *The initial setting is “CC CNVRTR 1”.*
- *The CC CONVERTER function does not work when analog sound is selected as the sound source or when 3D PHONIC is activated (☞ page 35). In such cases, pressing* **CC CONVERTER** *only displays “ANALOG SOURCE”.*
- *The original range of frequency is automatically detected and extended to a specific range. When the original range is 32 kHz, 44.1 kHz or 48 kHz, the range is extended to 128 kHz, 176.4 kHz or 192 kHz respectively.*



Setting the AM tuner spacing

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

On the receiver ONLY:



Receiver

■ When the receiver is turned off

To select 10 kHz spacing, while holding down **SEARCH +** on the receiver, press ⏻/I on the receiver to turn on the power. "AM 10 kHz STEP" appears in the display window.

To select 9 kHz spacing, while holding down **SEARCH –** on the receiver, press ⏻/I on the receiver to turn on the power. "AM 9 kHz STEP" appears in the display window.

NOTE

- *If the spacing is switched, the preset radio station memory will be erased.*

Selecting a radio station

This receiver can receive FM and AM radio broadcasts.

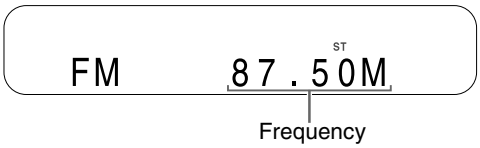
1 Slide the remote control mode selector to RECEIVER.

2 Press FM/AM to select "FM" or "AM".

- Pressing **FM/AM** selects a radio broadcast as the sound source.
- You can also use **SOURCE SELECT** on the receiver to select a radio broadcast as the sound source.
- Each time you press **FM/AM**, the band will toggle between "FM" and "AM".

Example:

Display on the receiver



3 Press TUNING ⊕ or TUNING ⊖ repeatedly to select a radio station (frequency).

- When the receiver has received an FM stereo broadcast, "ST" (stereo) indicator lights up.
- You can also select a radio station using the automatic tuning.

Automatic tuning:

Hold down **TUNING ⊕** or **TUNING ⊖** until the frequency starts changing, and then release the button.

When the receiver has received a broadcast, the frequency automatically stops changing.

To quit the function while searching for a broadcast, press **TUNING ⊕** or **TUNING ⊖** .

NOTE

- *Pressing* **SEARCH –** *or* **SEARCH +** *on the receiver also enables you to select the radio station.*
- *If an FM stereo broadcast is difficult to hear because of noise, you may be able to hear the broadcast more easily by pressing* **FM MODE** *to switch the sound to monaural reception. In this case, "MONO" lights up. To return the sound to stereo reception, press* **FM MODE** *again.*

For the locations of the remote control buttons, refer to page 18.

Tuning in to a preset radio station

Presetting radio stations in the receiver allows you to easily tune in to a radio station.

Presetting radio stations

You can store up to 30 FM radio stations and up to 15 AM radio stations.

1 Select a radio station you want to store (☞ "Selecting a radio station" on page 18).

2 Press MEMORY.

- The preset number flashes in the display window on the receiver for about 5 seconds.

3 While the preset number is flashing, press PRESET ⊕ or PRESET ⊖ to select the preset number you want to use.

- You can also select the preset number by using the number buttons. (Refer to "Using the number buttons". (☞ page 15))

4 Press MEMORY or ENTER while the selected number is flashing.

- "STORED" will appear and the selected radio station will be stored.

NOTE

- *When you store a radio station to a preset number to which another radio station has previously been stored, the newly set radio station replaces the previously stored radio station.*

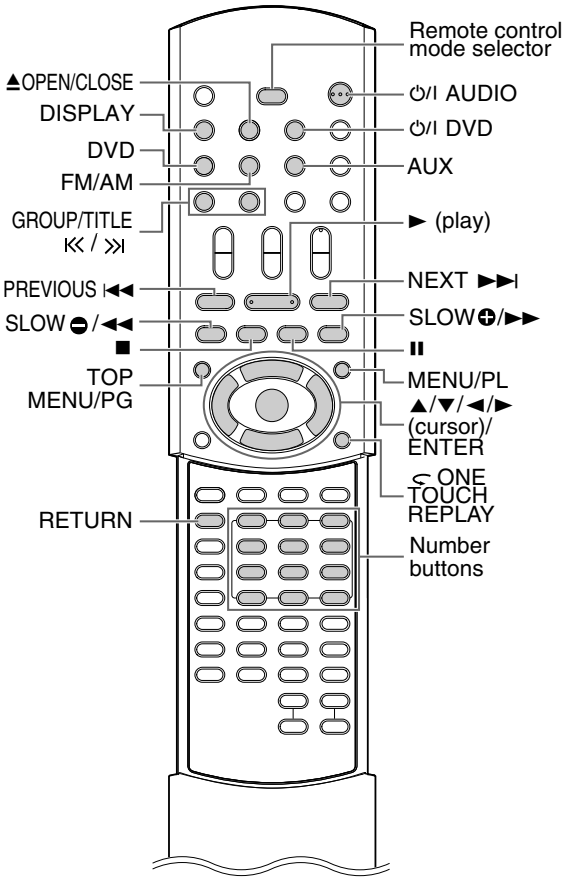
Tuning in to a preset radio station

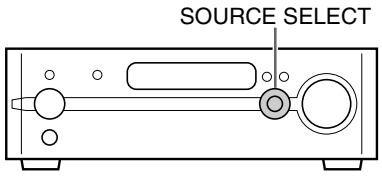
1 Slide the remote control mode selector to RECEIVER.

2 Press FM/AM repeatedly to select "FM" or "AM".

3 Press the number buttons to select the preset number of the radio station to which you want to tune in.

- Refer to "Using the number buttons" (☞ page 15).





Receiver

Playing back a DVD/CD

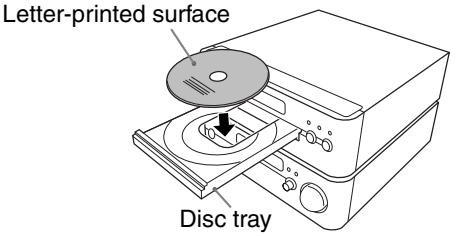
DVD VIDEO DVD AUDIO DVD VR VCD SVCD CD

1 Slide the remote control mode selector to DVD.

2 Press ⏏ OPEN/CLOSE.

- The disc tray ejects.

3 Place a disc.



- To listen to an 8 cm disc, place it on the inner hollow of the disc tray.

4 Press ► (play) or DVD.

NOTE

- *You can also use* **SOURCE SELECT** *on the receiver to select a loaded disc as the sound source.*
- *A menu screen may be displayed after starting playback of a DVD. In this case, select a desired item to playback by using the following buttons on the remote control.*
  - *Select a desired item using ▲/▼/◄/► (cursor) and press* **ENTER**.
  - *You can also select a desired item using the number buttons. Refer to "Using the number buttons" (☞ page 15).*
- *When a DVD AUDIO is played back, signals are converted into analog signals. Beginning playback of a DVD AUDIO displays "DVD-ANALOG" for a short time. When you take the disc out of the disc tray, the display returns to "DVD-DIGITAL" automatically.*
- *When using a DVD player other than the supplied XV-EXA10, select "DVD-DIGITAL" playback or "DVD-ANALOG" playback according to your usage. Each time you hold down* **DVD**, *the playback changes among "DVD-DIGITAL", "DVD-ANALOG" and "DVD-AUTO". Return to the initial setting ("DVD-AUTO") when using the XV-EXA10.*
- *Depending on the disc, the actual operation may be different from the description.*
- *When you select a source other than a DVD during playback, the loaded disc stops automatically, and "DVD OFF" is displayed in the display window on the DVD player.*

MP3 WMA JPEG ASF DivX MPEG1 MPEG2

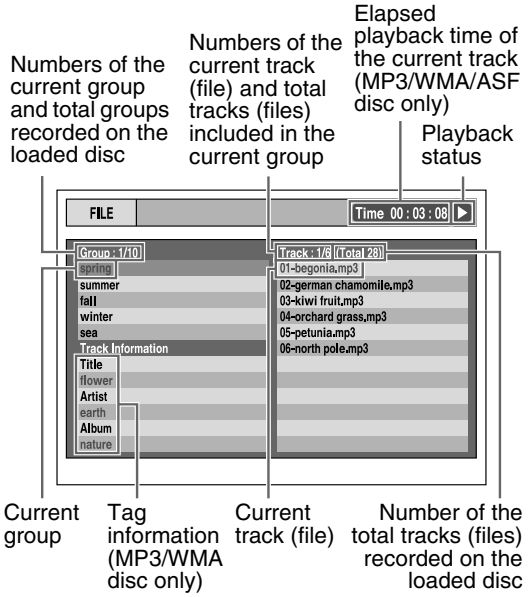
This part explains the operation with displays of an MP3 disc as examples.
For a JPEG disc, read “track” as “file”.

NOTE

- *When files of different types are recorded on a disc, select the file type to be played back. (☞ “FILE TYPE” on page 39)*

1 Slide the remote control mode selector to DVD.

2 Load a disc.



3 Press ▲/▼ (cursor) to select a group.

4 Press ► (cursor) to move to the track list.

- Press ◄ (cursor) to go back to the group list.

5 Press ▲/▼ (cursor) to select a track.

6 Press ► (play) or ENTER.

NOTE

- *You can also use* **GROUP/TITLE** ⏮ *or* ⏭ *in step 3 and* **PREVIOUS** ⏮ *or* **NEXT** ⏭ *in step 5. In this case, you can skip step 4.*
- *The number buttons can also be used in step 5. In this case, you can skip steps 4 and 6. (Refer to “Using the number buttons”. (☞ page 15))*

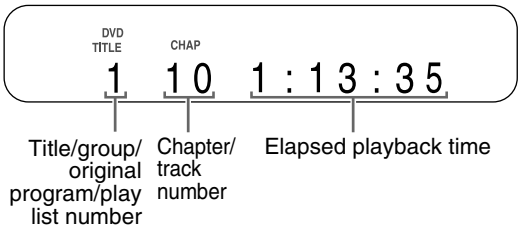
Slide-show playback JPEG

- In step 6, for a JPEG disc, when ► (play) is pressed, files will be continuously played back from the selected file (slide-show playback), and when **ENTER** is pressed, only a selected file will be played back.
- Display time for a file in slide-show playback is about 3 seconds.

Display window on the DVD player

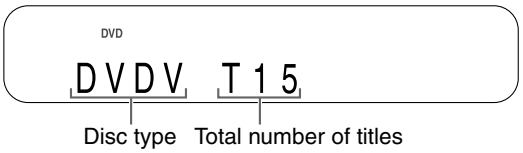
■DVD VIDEO/DVD AUDIO/DVD VR

When a disc is played back



- When a DVD AUDIO is played back, “GR” and “TR” are displayed instead of “TITLE” and “CHAP”.
- When a DVD VR is played back, “VR” is displayed and “PG” (original program) or “PL” (play list) is displayed instead of “TITLE”.
- If “BONUS” or “B.S.P.” is displayed during DVD AUDIO playback, refer to pages 34 and 35.

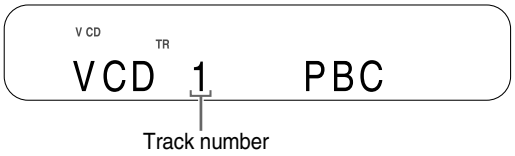
When a disc is stopped



- When a DVD AUDIO is loaded; “DVDA” is displayed instead of “DVDV”, and the total numbers of groups and the tracks are displayed instead of the total numbers of the titles.
- When a DVD VR is loaded; “VR” is displayed instead of “DVDV”, the total number of original programs or the play lists is displayed instead of the total number of titles, and “DVD VR” is displayed instead of “DVD”.

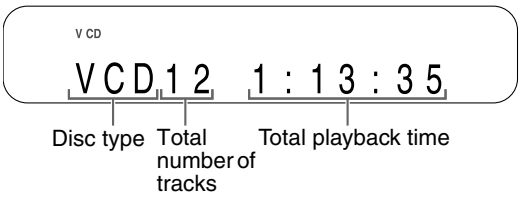
■VCD/SVCD

When a disc is played back



- PBC (Play Back Control) is a signal recorded in a VCD (version 2.0) for controlling playback. You can enjoy interactive software or software with a search function using a menu screen recorded in a PBC compatible VCD. To play back a disc without the PBC function, follow the instructions below.
  - Specify the track number using the number buttons when the disc is stopped. Refer to "Using the number buttons" (☞ page 15).
  - Specify the track number using **PREVIOUS** ⏮ or **NEXT** ⏭ when the disc is stopped, and then press ► (play).
- Press **RETURN** to go back to the upper layer during PBC playback of a VCD or SVCD.

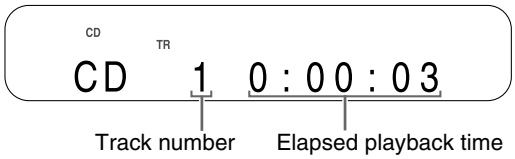
When a disc is stopped



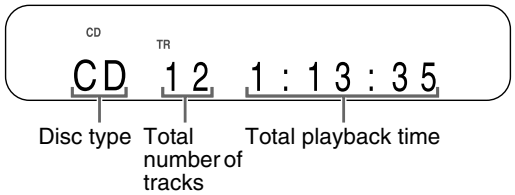
- When the PBC function is activated, the display below appears after the display above is displayed for a short time.

■CD

When a disc is played back

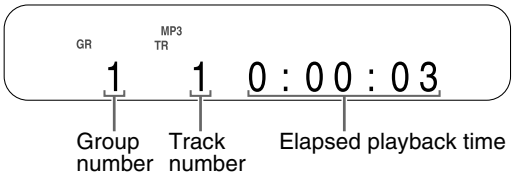


When a disc is stopped



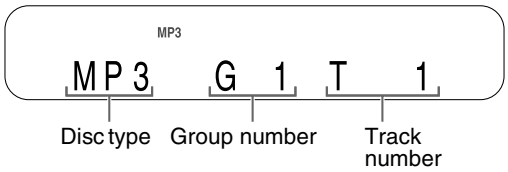
■MP3/WMA/ASF/DivX/MPEG1/MPEG2 disc

When a disc is played back



- When a WMA disc is played back, "WMA" is displayed instead of "MP3".
- When an ASF/DivX/MPEG1/MPEG2 disc is played back, no disc type indicator is displayed.

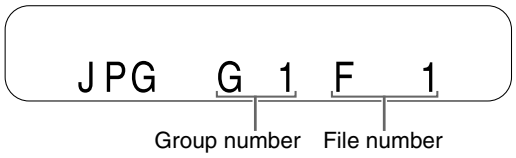
When a disc is stopped



- When a WMA disc is loaded, "WMA" is displayed instead of "MP3" in the upper indicator and the lower display.
- When an ASF disc is loaded; "MP3" disappears in the upper indicator, and "ASF" is displayed instead of "MP3" in the lower display.
- When a DivX disc is loaded; "MP3" disappears in the upper indicator, and "DivX" is displayed instead of "MP3" in the lower display.

■JPEG disc

When a disc is played back or stopped



Changing the display in the display window

Receiver

1 **Slide the remote control mode selector to RECEIVER.**

2 **Press DISPLAY repeatedly.**

- Each time you press **DISPLAY**, the display toggles between the current source (DVD, FM, AM, AUX-DIGITAL or AUX) and the clock.

DVD player

DVD VIDEO DVD AUDIO DVD VR MP3 WMA ASF DivX MPEG1 MPEG2

1 **Slide the remote control mode selector to DVD.**

2 **Press DISPLAY repeatedly during playback.**

- Each time you press **DISPLAY**, the display changes.

■ DVD VIDEO

Normal display (as shown on page 21)
↕
Disc type/title number/chapter number

■ DVD AUDIO

Normal display (as shown on page 21)
↕
Disc type/group number/track number

■ DVD VR

Normal display (as shown on page 21)
↕
Disc type/original program (play list) number/ chapter number

■ MP3/WMA disc

Normal display (as shown on page 22)
↓
File type/group number/track number
↓
Text*

* When text, such as a file name, has been recorded in the loaded MP3/WMA disc, the text appears and scrolls in the display window on the DVD player.

■ ASF/DivX/MPEG1/MPEG2 disc

Normal display (as shown on page 22)
↕
File type/group number/track number

Selecting a chapter/track using the number buttons

DVD VIDEO DVD AUDIO DVD VR CD MP3 WMA JPEG ASF DivX MPEG1 MPEG2 VCD SVCD (PBC off)

■ **When a disc is played back**

1 **Slide the remote control mode selector to DVD.**

2 **Use the number buttons to select the chapter number or track number.**

- Refer to “Using the number buttons” (☞ page 15).

NOTE

- *You cannot use this function for some discs.*

Stopping playback

DVD VIDEO DVD AUDIO DVD VR VCD SVCD CD MP3 WMA JPEG ASF DivX MPEG1 MPEG2

■ **When a disc is played back**

1 **Slide the remote control mode selector to DVD.**

2 **Press ■.**

Pausing playback

DVD VIDEO DVD AUDIO DVD VR VCD SVCD CD MP3 WMA JPEG ASF DivX MPEG1 MPEG2

■ **When a disc is played back**

1 Slide the remote control mode selector to DVD.

2 Press ❚❚.

- To return to normal playback, press ► (play).

Advancing the picture frame by frame

DVD VIDEO DVD VR VCD SVCD ASF DivX MPEG1 MPEG2

DVD AUDIO
└ (only for moving image)

■ **When a disc is paused**

1 Slide the remote control mode selector to DVD.

2 Press ❚❚ repeatedly.

Fast reverse/fast forward search

DVD VIDEO DVD AUDIO DVD VR VCD SVCD CD MP3 WMA ASF DivX MPEG1 MPEG2

■ **When a disc is played back**

1 Slide the remote control mode selector to DVD.

There are two methods in step 2.

2 Press ◄◄ or ►►.

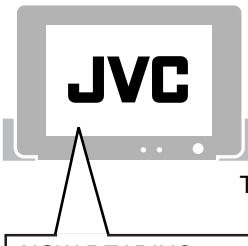
- Each time you press the button, the speed increases. To restore the normal speed, press ► (play).

Hold down PREVIOUS |◄◄ or NEXT ►►|.

- Fast reverse/fast forward search can be used only while the button is pressed.

NOTE

- *For some discs, sound is intermittent or no sound will be produced during fast reverse/fast forward search.*
- *The selectable speeds and displays vary by the disc type.*



Messages displayed on the TV when the power is turned on

The following messages appear depending on the status of the DVD player.

NOW READING	Appears when the DVD player is reading the disc information. Wait for a while.
REGION CODE ERROR!	Appears when the Region Code of the DVD does not match the code the DVD player supports. (☞ page 47)
NO DISC	Appears when no disc is loaded.
OPEN	Appears when the disc tray is opening.
CLOSE	Appears when the disc tray is closing.
CANNOT PLAY THIS DISC	Appears when an unplayable disc is attempted to be played back.

Playing back from a position 10 seconds before (One touch replay)

DVD VIDEO DVD VR

■ **When a disc is played back**

1 **Slide the remote control mode selector to DVD.**

2 **Press ↶ ONE TOUCH REPLAY.**

NOTE

- *This operation may not be used for some discs.*
- *You cannot go back to the previous title.*

Slow motion playback

DVD VIDEO DVD VR VCD SVCD DVD AUDIO (only for moving image)

■ **When a disc is paused**

1 **Slide the remote control mode selector to DVD.**

2 **Press SLOW ⊖ or SLOW ⊕.**

- Each time you press the button, the speed increases.
- Press ❚❚ to pause playback, and press ► (play) to return to normal playback.

NOTE

- *No sound will be produced.*
- *The picture motion in the reverse direction may not be smooth.*
- *For a VCD, SVCD or DVD VR, slow motion playback can be used in the forward direction only.*

Skipping to the beginning of a chapter/ track/file

DVD VIDEO DVD AUDIO DVD VR CD MP3 WMA JPEG ASF DivX MPEG1 MPEG2 VCD SVCD (PBC off)

■ **When a disc is played back**

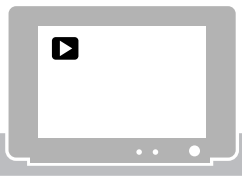
1 **Slide the remote control mode selector to DVD.**

2 **Press PREVIOUS ⏮ or NEXT ⏭.**

- Each time you press the button, the playback position skips to the beginning of the previous or next chapter/track/file.
- Press **PREVIOUS** ⏮ once to skip back to the beginning of the chapter or track currently being played back (except for a JPEG disc).
- Press **GROUP/TITLE** ⏭ or ⏮ to select the title or group.
- During playback of an MP3/WMA/JPEG/ ASF/DivX disc, press **NEXT** ⏭ or ▼ (cursor) to play back the next file, or press **PREVIOUS** ⏮ or ▲ (cursor) to play back the previous file.

NOTE

- *You can use this function while the disc is stopped except for a DVD VIDEO. You can use ▲ or ▼ (cursor) to skip to the beginning of a track while you are viewing the TV screen.*
- *You cannot use this function for some discs.*



Guide icons displayed on the TV screen (on-screen guide)

Play	Containing multi-view angles (☞ page 33)
Pause	Containing multi-audio languages (☞ page 32)
Fast reverse/fast forward search	Containing multi-subtitle languages (☞ page 32)
Slow motion playback (reverse/ forward directions)	The disc cannot accept the operation you have attempted.

Skipping at about 5 minute intervals

DivX MPEG1 MPEG2

You can skip within a file at about 5 minute intervals.
This is useful especially when you want to skip within a long file.

■ **When a disc is played back**

1 **Slide the remote control mode selector to DVD.**

2 **Press ◄ or ► (cursor).**

- Each time you press the button, the playback position skips to the beginning of the previous or next interval. Each interval is about 5 minutes.

NOTE

- *Intervals are automatically assigned from the beginning of a file.*
- *You can use this function only within the same file.*
- *You cannot use this function for some discs.*

Resuming playback

DVD VIDEO DVD AUDIO DVD VR VCD SVCD MP3 WMA ASF DivX MPEG1 MPEG2

When playback is stopped in the middle, playback can be started from the stopped position.

Temporarily stopping playback

■ **When a disc is played back**

1 **Slide the remote control mode selector to DVD.**

2 **Follow any of the operations below.**

Press ■ once.*1 *2
Press ⏻/I **AUDIO** to turn off the power of the receiver.
Press ⏻/I **DVD** to turn off the power of the DVD player.
Change the source to FM/AM or AUX.*2

*1 "RESUME" will be displayed. If ■ is pressed again at this time, "RESUME" will disappear and the stored information will be cleared.

*2 After playback is stopped, even if the receiver or the DVD player is turned off by pressing ⏻/I **AUDIO** or ⏻/I **DVD**, the position where playback has been stopped will be stored.

Starting playback from the stored position

1 **Slide the remote control mode selector to DVD.**

2 **Press ► (play).**

NOTE

- *This function does not work in program playback or random playback.*
- *The position where playback starts again may be a little different from the stopped position.*
- *When the menu screen is displayed, the resume playback function may not work.*
- *The audio language, the subtitle language and the angle at that time are stored together with the stopped position.*
- *The stored position will be cleared if the disc tray is opened.*
- *The resume playback function is activated as the initial setting. You can disable the resume playback function. (☞ "RESUME" on page 39)*

For the locations of the remote control buttons, refer to page 20.

Selecting a track from the menu screen

DVD VIDEO DVD AUDIO VCD SVCD (PBC off)

■ When a disc is stopped or played back

1 **Slide the remote control mode selector to DVD.**

2 **Press MENU/PL or TOP MENU/PG.**

- The menu screen will be displayed.
- Only **TOP MENU/PG** can be used for DVD AUDIOs.

3 **Press ▲/▼/◄/► (cursor) (only for a DVD VIDEO or DVD AUDIO) or the number buttons to select the desired track.**

- Refer to "Using the number buttons" (☞ page 15).
- When the menu screen has a couple of pages, press **PREVIOUS** ⏮ or **NEXT** ⏭ to change the page (only for a VCD and SVCD).

4 **Press ENTER.**

NOTE

- *You cannot use this function for a disc without a menu screen.*
- *Playback may start for some discs without pressing* **ENTER***.*

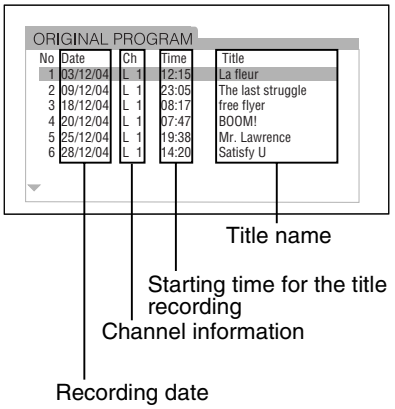
DVD VR

■ When a disc is stopped or played back

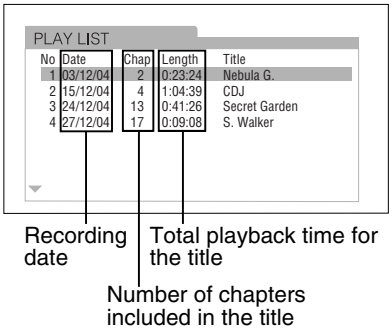
1 **Slide the remote control mode selector to DVD.**

2 **Press TOP MENU/PG to display the original program or press MENU/PL to display the play list.**

■Original program



■Play list

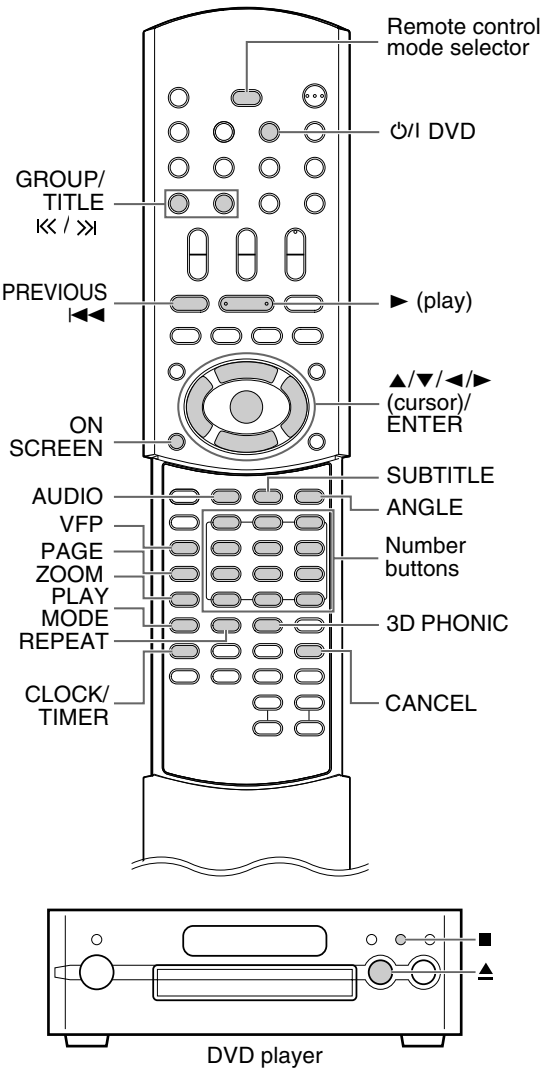


- The play list will not appear when a play list has not been recorded to the disc.

3 **Press ▲/▼ (cursor) to select the desired title.**

4 **Press ENTER.**

- When you have selected the original program by pressing **TOP MENU/PG** in step 2, playback will start from the selected title to the following titles.
- When you have selected the play list by pressing **MENU/PL** in step 2, only the selected title will be played back.



Locking DVD/CD ejection

You can lock the disc tray to prevent the disc from being ejected.

Setting

Turn off the DVD player. And while holding down ■ on the DVD player, press ⏏ on the DVD player.

- "LOCKED" appears in the display window on the DVD player.

Releasing

Follow the same instructions as those for setting.

- "UNLOCKED" appears in the display window on the DVD player.

Playing back a DVD/CD in the desired order (Program playback)

DVD VIDEO DVD AUDIO VCD SVCD CD MP3 WMA

You can program a maximum of 99 tracks or chapters. The same track or chapter can be programmed more than once.

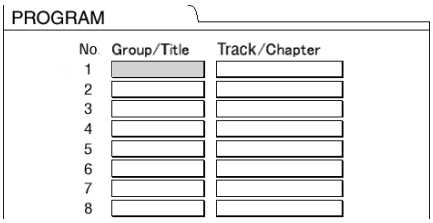
■ **When a disc is stopped**

1 Slide the remote control mode selector to DVD.

2 Press PLAY MODE repeatedly to display "PROGRAM" in the display window on the DVD player.

Example:
Display on the DVD player for a DVD VIDEO

Example:
TV screen for a DVD VIDEO (Program screen)



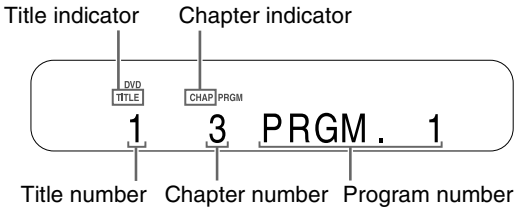
(Continued on the next page)

3 Press the number buttons to program chapters/tracks.

- Refer to “Using the number buttons” (☞ page 15).

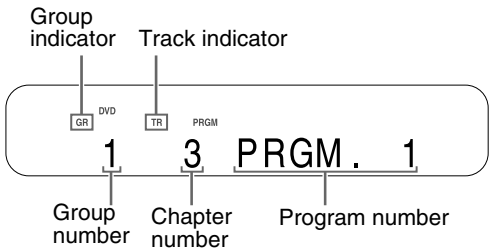
■Display on the DVD player for DVD VIDEO

- Select a title number, and then a chapter number.



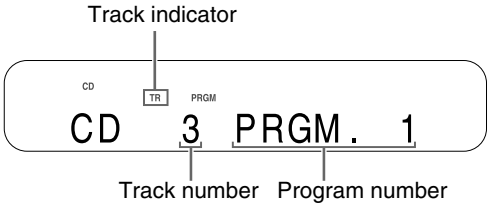
■Display on the DVD player for DVD AUDIO/ MP3/WMA disc

- Select a group number, and then a track number.



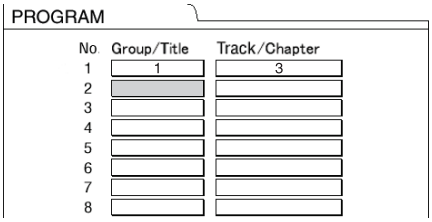
■Display on the DVD player for VCD/SVCD/CD

- Select a track number.
- As you finish the track selection, the total time for the program playback will be displayed.



Example:

TV screen for a DVD VIDEO (Program screen)



- Before selecting a bonus group of a DVD AUDIO, cancel the “BONUS” display as explained in “Playing back the bonus group” on page 34.
- When you try to enter more than 99 chapters or tracks, “MEMORY FULL” appears.
- In the case of a VCD, SVCD or CD, when the total playback time reaches 9 hours 59 minutes 59 seconds, “--:--” will be displayed in the display window on the DVD player.

NOTE

- *Only for a DVD VIDEO, DVD AUDIO, MP3, WMA disc, if you press* **ENTER** *instead of specifying a track/chapter number, “ALL” is displayed and all of the tracks/chapters included in the selected group/ title are programmed.*

4 Press ► (play).

- To return to normal playback, press **PLAY MODE** repeatedly to turn off “PRGM” (the upper indicator) in the display window on the DVD player while the disc is stopped. The program content will not be erased.
- The following operations erase the program content.
  - Hold down **CANCEL** until “ALL CLEAR!” appears in the display window while the program screen is displayed on the TV screen (if **CANCEL** is pressed and released quickly, programs will be erased one by one).
  - Open the disc tray.
  - Turn off the power. (Only when the setting save function (☞ page 31) is not being used)

Playing back a DVD/CD in a random order (Random playback)

DVD VIDEO DVD AUDIO VCD SVCD CD MP3 WMA

■ **When a disc is stopped**

1 **Slide the remote control mode selector to DVD.**

2 **Press PLAY MODE repeatedly to display "RANDOM" in the display window on the DVD player.**

- "RANDOM" will also be displayed on the TV screen.

3 **Press ► (play).**

- The same chapter or track will not be played back twice.
- To return to normal playback, press **PLAY MODE** repeatedly to turn off "RND" (the upper indicator) in the display window on the DVD player while the disc is stopped.
- The following operations also cancel random playback.
  - Open the disc tray.
  - Turn off the power. (Only when the setting save function (☞ page 31) is not being used)
- The previous track will not be returned to even if **PREVIOUS** I◄◄ is pressed repeatedly during random playback. (Playback will be returned to the beginning of the current chapter or track.)

NOTE

- *You cannot use the random playback function for some DVD VIDEOs.*

Playing back a DVD/CD repeatedly (Repeat playback)

DVD VIDEO DVD AUDIO DVD VR CD MP3 WMA JPEG ASF DivX MPEG1 MPEG2 VCD SVCD

└(PBC off)

■ **When a disc is played back**

1 **Slide the remote control mode selector to DVD.**

2 **Press REPEAT.**

- Each time you press the button, the repeat mode changes.

Display on the TV screen	Display in the display window on the DVD player	Usage for the repeat mode
TITLE	ALL REPEAT TITLE	Repeats the current title.
ALL or REPEAT ALL	ALL REPEAT ALL	Repeats the whole disc*1.
GROUP*2 or REPEAT GROUP	GR REPEAT GROUP*2	Repeats the current group*3.
CHAP*4	REPEAT CHAP*4	Repeats the current chapter.
TRACK*4 or REPEAT TRACK	REPEAT TRACK*4	Repeats the current track.
OFF or no display	REPEAT OFF	Repeat off

*1 Repeats the whole program during program playback.
*2 For a DVD VR, "PG" is displayed during original program playback, and "PL" is displayed during play list playback.
*3 Repeats the current original program or the current play list for a DVD VR.
*4 "STEP" is displayed during program/random playback.

NOTE

- *The repeat playback can also be set on the menu bar. (☞ "Playing back a specified part repeatedly (A-B repeat playback)" on page 31)*
- *For a DVD VIDEO, DVD AUDIO and DVD VR, if the source is switched to FM/AM or AUX, the repeat mode will be cancelled.*
- *The repeat mode will be automatically cancelled if there is a file that cannot be played back (☞ page 47).*

Playing back a specified part repeatedly (A-B repeat playback)

DVD VIDEO DVD AUDIO DVD VR CD VCD SVCD (PBC off)

You can play back the desired part repeatedly by specifying a start point (A) and an end point (B).

■ **When a disc is played back**

1 **Slide the remote control mode selector to DVD.**

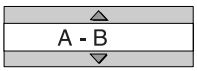
2 **Press ON SCREEN twice.**

- The menu bar (☞ page 36) will be displayed.

3 **Press ◄/► (cursor) to select** ↻ OFF **.**

4 **Press ENTER.**

5 **Press ▲/▼ (cursor) to display**



.

- Other repeat modes can be selected in this step. For other repeat modes, refer to "Playing back a DVD/CD repeatedly (Repeat playback)" (☞ page 30).

6 **Press ENTER at the start point of the part to be repeated (specifying point A).**

- The icon on the menu bar will be ↻ A- .

7 **Press ENTER at the end point of the part to be repeated (specifying point B).**

- The icon on the menu bar will be ↻ A-B . ↻ will appear in the display window on the DVD player and the part between points A and B will be played back repeatedly.
- A-B repeat playback can be cancelled by following the operations below.
  - Press ■.
  - Select ↻ A-B and press **ENTER** twice. (Select ↻ OFF .)

NOTE

- *You can use A-B repeat playback only within the same title or track.*
- *You cannot use A-B repeat playback during program playback, random playback or repeat playback.*
- *You cannot use the A-B repeat playback function for some DVD VIDEOs.*

Saving the playback settings for next time

DVD VIDEO DVD AUDIO DVD VR VCD SVCD CD MP3 WMA JPEG ASF MPEG1 MPEG2

You can save the settings for program playback, random playback or repeat playback so that the settings are activated even after the DVD player is turned off and then on again.

Combining this function with the playback timer (☞ page 43), you can make a variety of playback settings.

1 **Slide the remote control mode selector to DVD.**

2 **Press CLOCK/TIMER.**

- The current settings for program/random/repeat playback will be stored.

Display on the DVD player

NOTE

- *To cancel the setting save function, press* **CLOCK/TIMER** *again.*

- *Opening the disc tray also cancels the setting save function.*
- *Resume playback does not work when the settings for program/random/repeat playback are saved. For example, if the program playback settings are saved and* ⏻/I **DVD** *is pressed to turn off the DVD player during playback, pressing* ⏻/I **DVD** *to turn on the DVD player again and pressing ► (play) starts playback of the first programmed track/chapter. Conversely, if the program playback settings are not saved and ► (play) is pressed after the DVD player is turned on, the resume playback function operates and playback starts from the point where the disc was stopped.*
- *For a JPEG/ASF/DivX/MPEG1/MPEG2 disc, you can use the setting save function for repeat playback only.*

Selecting the subtitles

DVD VIDEO DVD VR SVCD DivX DVD AUDIO

└(only for moving image)

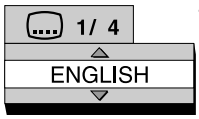
This part explains the operation with displays of a DVD VIDEO as examples.
You can use discs of other types in almost the same manner.

■ When a disc contains subtitles and is played back

1 **Slide the remote control mode selector to DVD.**

2 **Press SUBTITLE.**

Example:



TV screen

- Each time you press the button, the subtitle will toggle between on and off.

3 **Press ▲/▼ (cursor) to select a subtitle language.**

4 **Press ENTER.**

- The subtitle language setting will change automatically in a few seconds even if **ENTER** is not pressed.

NOTE

- *You can use this function with the menu bar (☞ page 36).*
- *For a language code such as "AA", refer to "Language codes" (☞ page 51).*

Selecting the audio language

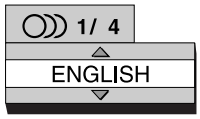
DVD VIDEO DVD AUDIO DVD VR VCD SVCD DivX

■ When a disc contains multiple audio languages and is played back

1 **Slide the remote control mode selector to DVD.**

2 **Press AUDIO.**

Example:



TV screen

- Each time you press the button, the audio language will be changed. Also, the audio language can be changed by pressing ▲/▼ (cursor).

3 **Press ENTER.**

- The audio language setting will change automatically in a few seconds even if **ENTER** is not pressed.

NOTE

- *You can use this function with the menu bar (☞ page 36).*
- *For a language code such as "AA", refer to "Language codes" (☞ page 51).*
- *"ST", "L" and "R" displayed when playing back a VCD, SVCD or DVD VR respectively represent "Stereo", "Left sound" and "Right sound".*
- *For a DivX disc, only the number of the language is displayed on the TV screen.*

Selecting the view angle

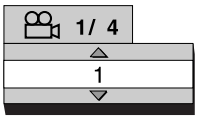
DVD VIDEO DVD AUDIO
(only for moving image)

■ **When a scene containing multi-view angles is played back**

1 **Slide the remote control mode selector to DVD.**

2 **Press ANGLE.**

Example:



TV screen

- Each time you press the button, the angle will be changed. Also, the angle can be changed by pressing ▲/▼ (cursor).

3 **Press ENTER.**

- The angle setting will change automatically in a few seconds even if **ENTER** is not pressed.

NOTE

- *You can use this function with the menu bar (☞ page 36).*

Magnifying the picture (ZOOM)

DVD VIDEO DVD VR VCD SVCD JPEG ASF DivX MPEG1 MPEG2 DVD AUDIO
(only for moving image)

■ **When a disc is played back or paused**

1 **Slide the remote control mode selector to DVD.**

2 **Press ZOOM.**

- Each time you press the button, the picture magnification will be changed.

3 **Select the portion you want to magnify by using ▲/▼/◄/► (cursor).**

- To return to normal playback, select “ZOOM OFF” in step 2.

NOTE

- *For a JPEG disc, you cannot change the picture magnification during slide-show playback.*
- *During ASF playback, there may be a case where ▲/▼/◄/► (cursor) does not work in step 3.*

Adjusting the picture quality (VFP)

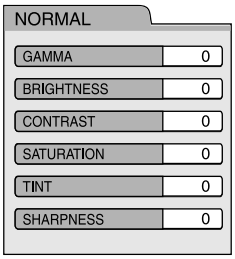
DVD VIDEO DVD AUDIO DVD VR VCD SVCD JPEG ASF DivX MPEG1 MPEG2

■ **When a disc is played back or paused**

1 Slide the remote control mode selector to DVD.

2 Press VFP.

- The current setting will appear on the TV screen.



- The “GAMMA” setting adjusts the brightness of neutral tints while maintaining the brightness of dark and bright portions.
- The “SHARPNESS” setting adjusts the screen sharpness.

3 Press ◄/► (cursor) to select VFP mode.

- Selecting “NORMAL” is suitable for normal usage, and selecting “CINEMA” is suitable for a dark room. When selecting “NORMAL” or “CINEMA”, proceed to step 8.
- Selecting “USER1” or “USER2” enables you to make detailed adjustment in step 4 and the later steps.

4 Press▲/▼ (cursor) to select an item to be adjusted.

5 Press ENTER.

Example:

TV screen

6 Press ▲/▼ (cursor) to change the value.

7 Press ENTER.

- To adjust other items, go back to step 4.

8 Press VFP.

NOTE

- *If no operation is made for several seconds during the procedure, the settings made so far will be automatically stored.*
- *“VFP” stands for “Video Fine Processor”.*

Playing back the bonus group

DVD AUDIO

There are some DVD AUDIOs with a special group, called “bonus group”, recorded.

NOTE

- *You can use this function when “BONUS” lights up in the display window on the DVD player.*

■ **When a disc is played back**

1 Slide the remote control mode selector to DVD.

2 Press GROUP/TITLE ⋙| repeatedly to select a bonus group.

- “KEY_ _ _ _” appears on the TV screen, and in the display window on the DVD player.

3 Press the number buttons to enter the pin code (4 digits).

- The method of obtaining a pin code differs depending on the disc.

4 Press ENTER.

- When the correct pin code is entered, “BONUS” disappears and the playback of the bonus group starts.
- If an incorrect pin code is entered, try entering the correct pin code again.

Browsable still pictures (B.S.P.)

DVD AUDIO

Some DVD AUDIOs may have pictures called B.S.P. (Browsable Still Pictures). The pictures can be viewed as if you are turning pages.

NOTE

- *You can use this function when "B.S.P." lights up in the display window on the DVD player.*

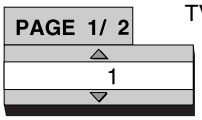
■ **When a disc is played back**

1 Slide the remote control mode selector to DVD.

2 Press PAGE.

- Each time you press the button, the still picture will be changed. You can also switch the picture using ▲/▼ (cursor).

Example:



TV screen

3 Press ENTER.

- The picture setting will change automatically in a few seconds even if **ENTER** is not pressed.

NOTE

- *You can use this function with the menu bar (☞ page 36).*

Creating realistic sound (3D PHONIC)

DVD VIDEO DVD AUDIO DVD VR VCD SVCD CD MP3 WMA

The two speakers produce an effect resembling surround-sound.

■ **When a disc is played back**

1 Slide the remote control mode selector to DVD.

2 Press 3D PHONIC repeatedly to select the desired sound effect.

Example:

Display on the DVD player

This indicator lights up when 3D PHONIC is activated.

- "ACTION" is suitable for action movies, sport programs or other lively programs.
- Select "DRAMA" to enjoy a sound effect with a relaxing, natural atmosphere.
- Select "THEATER" to enjoy a sound effect as if you were watching the movie in a theater.
- Select "3D PHONIC OFF" to cancel 3D PHONIC. (initial setting)

NOTE

- *3D PHONIC is effective for both the speakers and headphones.*
- *If noise is produced or sound is distorted, select "3D PHONIC OFF ".*
- *When 3D PHONIC is activated, analog playback is selected automatically, and "DVD-ANALOG" is displayed in the display window on the receiver. Canceling 3D PHONIC returns to "DVD-DIGITAL" automatically. When a DVD AUDIO is played back, signals are converted into analog signals regardless of whether 3D PHONIC is activated or canceled.*
- *You cannot use this function for some DVD AUDIOs.*
- *When 3D PHONIC is activated, the CC CONVERTER function will be cancelled automatically. (☞ page 17)*
- *For an ASF/DivX/MPEG1/MPEG2 disc, 3D PHONIC does not work and creates no sound effect even when "ACTION", "DRAMA" or "THEATER" is displayed.*

Using the status bar and the menu bar

DVD VIDEO DVD AUDIO DVD VR VCD SVCD CD ASF DivX MPEG1 MPEG2

■ **When a disc is played back**

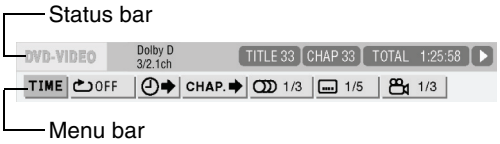
1 Slide the remote control mode selector to DVD.

2 Press ON SCREEN twice.

- "ON SCREEN" will appear in the display window on the DVD player. The status bar and the menu bar will appear on the TV screen.

Example:

When a DVD VIDEO is loaded



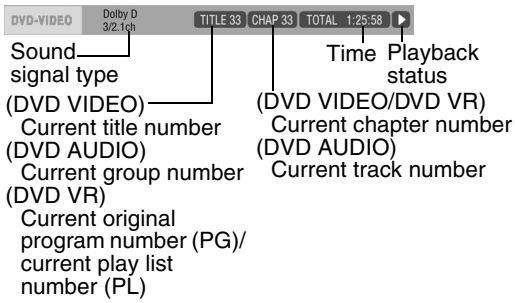
3 Press ◄/► (cursor) to select an item to be operated.

4 Press ENTER.

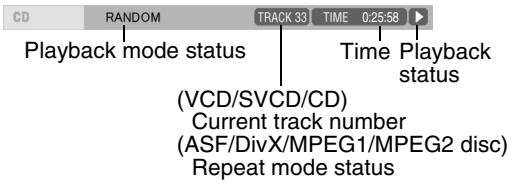
- The selected function can be set. For the setting content, refer to "Function list". (☞ page 37)
- The currently active function is shown in blue.
- To turn off the menu bar, press **ON SCREEN**.

Information displayed on the status bar

DVD VIDEO/DVD AUDIO/DVD VR (the example below is for a DVD VIDEO)



VCD/SVCD/CD/ASF/DivX/MPEG1/MPEG2 disc (the example below is for a CD)



NOTE

- *The playback status has the same meaning of the mark on the on-screen guide (☞ page 25).*

For the locations of the remote control buttons, refer to page 28.

Function list

For functions with no description of the operation, press ▲/▼ (cursor) to select and press **ENTER** to determine the function.

TIME Time display selection	Changes the time information in the display window on the DVD player and the status bar. Each time **ENTER** is pressed, the display will be changed. **DVD VIDEO/DVD AUDIO (operating during playback)** TOTAL: Elapsed playback time of the current title/group. T.REM: Remaining time of the current title/group. TIME : Elapsed playback time of the current chapter/track. REM : Remaining time of the current chapter/track. **DVD VR (operating during playback)** TOTAL: Elapsed playback time of the current title/group. T.REM: Remaining time of the current title/group. **CD (operating during playback)/VCD/ SVCD** TIME : Elapsed playback time of the current track. REM : Remaining time of the current track. TOTAL: Elapsed playback time of the disc. T.REM: Remaining time of the disc.
Repeat mode	☞ page 30
Time search	☞ on the right
CHAP. / TRACK Chapter search (DVD VIDEO/DVD VR)/Track search (DVD AUDIO)	Selects a chapter/track. Press the number buttons to input the chapter/ track number and press **ENTER**. Examples: 5: 5 24: 2 → 4
Audio language/ Audio (DVD VIDEO/ DVD AUDIO/VCD/ SVCD)	☞ page 32
Subtitle language (DVD VIDEO/DVD VR/SVCD)	☞ page 32
1/ 3 View angle (DVD VIDEO/DVD AUDIO)	☞ page 33
PAGE -/- Page switch (DVD AUDIO)	Switches the browsable still pictures (B.S.P.) recorded on a DVD AUDIO. (☞ page 35)

Designating the time (Time search)

■ When a disc is played back

1 **Slide the remote control mode selector to DVD.**

2 **Press ON SCREEN twice.**

- The menu bar will appear (☞ page 36).

3 **Press ◄/► (cursor) to select .**

4 **Press ENTER.**

5 **Input the time using the number buttons (1-9, 0).**

Example:

When you want to play back a DVD VIDEO from the position of (0 hour) 23 minutes 45 seconds, press the buttons in the order:

0 → 2 → 3 → 4 → 5 .

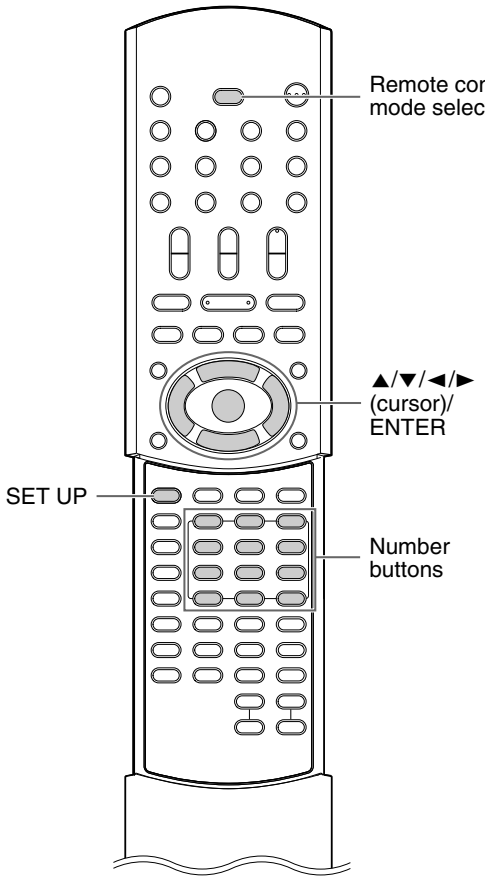
- You can skip the minute and second setting.
- If the incorrect value is input, press ◄ (cursor) to delete the values and input values again.

6 **Press ENTER.**

- To turn off the menu bar, press **ON SCREEN**.

NOTE

- *This function does not work for a DVD VIDEO with no time information recorded.*
- *This function does not work during program playback or random playback.*
- *For a CD, you can use this function any time.*
- *For a VCD or SVCD, you can use this function during playback without the PBC function.*
- *Time search for a DVD VIDEO is from the beginning of the title. Time search for a DVD AUDIO is from the beginning of the track being played back. Time search for a VCD, an SVCD and a CD is as follows:*
  - *When the disc is stopped, time search is from the beginning of the disc.*
  - *When the disc is being played back, time search is within the track currently being played back.*



The initial settings of the DVD player can be changed with the preference screen according to the environment where the DVD player is used.

NOTE

- *The top and bottom of the preference screen may not be displayed on a wide TV. Adjust the picture size on the TV.*

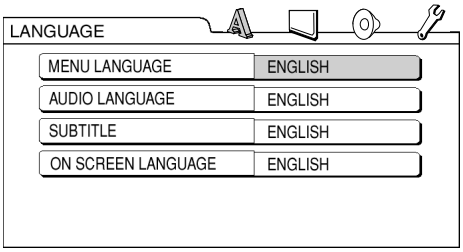
Basic operations

■ **When a disc is stopped or no disc is loaded ("NO DISC" is displayed)**

1 **Slide the remote control mode selector to DVD.**

2 **Press SET UP.**

- The following screen will be displayed on the TV.



- Proceed with operations by following the description on the TV screen.

LANGUAGE

NOTE

- *If the selected language is not recorded on the disc, the optimum language set for the disc will be displayed.*
- *For a language code such as "AA", refer to the "Language codes" (☞ page 51).*

Items	Contents
MENU LANGUAGE	Selects the language for the DVD VIDEO menu screen.
AUDIO LANGUAGE	Selects the audio language for the DVD VIDEO.
SUBTITLE	Selects the subtitle language for the DVD VIDEO.
ON SCREEN LANGUAGE	Selects the language displayed on the preference screens.

PICTURE

Items	Contents (: initial setting)
MONITOR TYPE	**16 : 9/16 : 9 MULTI:** For an ordinary wide TV. **4 : 3 LB (Letterbox)/4 : 3 MULTI LB (Letterbox) :** For a TV with conventional 4:3 aspect ratio. When a wide screen picture is input, the black bars appear on the top and bottom of the screen. **4 : 3 PS (Pan Scan)/4 : 3 MULTI PS (Pan Scan):** For a TV with conventional 4:3 aspect ratio. When a wide screen picture is input, the left and right edges of the picture will not be shown on the screen. (If the disc is not compatible with Pan Scan, the picture will be displayed at the Letterbox ratio.) When using a TV compatible with multiple video signal types, select "16 : 9 MULTI", "4 : 3 MULTI LB" or "4 : 3 MULTI PS".
PICTURE SOURCE	Select an item suitable to the video source. **AUTO :** The video source type (a video or film) is automatically selected. **FILM:** To view a film or video recorded with the progressive scan method. **VIDEO:** To view a normal video.
SCREEN SAVER	Select the Screen Saver mode between ON / OFF (Screen Saver activates when there is no operation made for about 5 minutes since a still picture was last displayed).
FILE TYPE	Select an item suitable to the file type. **AUDIO :** For MP3/WMA files. **STILL PICTURE:** For JPEG files. **VIDEO:** For ASF/DivX/MPEG1/MPEG2 files.

AUDIO

Items	Contents (: initial setting)
DIGITAL AUDIO OUTPUT*	**Select the output signal type suitable to the equipment connected to the DIGITAL OUT terminal (a decoder-built-in amplifier or other digital equipment with an optical input terminal). Refer to "List of relationships of DIGITAL AUDIO OUTPUT preference items and output signal" (☞ page 40).** **PCM ONLY :** Equipment corresponding only to linear PCM. **DOLBY DIGITAL/PCM:** Dolby digital decoder or equipment having the same function. **STREAM/PCM:** DTS/Dolby digital decoder or equipment having the same function.
DOWN MIX	**Select the signal suitable to the equipment connected to the DIGITAL OUT terminal. Set "DOWN MIX" only when "DIGITAL AUDIO OUTPUT" is set to "PCM ONLY".** **DOLBY SURROUND:** Dolby Pro Logic decoder-built-in equipment. **STEREO :** Ordinary audio equipment.
D (Dynamic). RANGE COMPRESSION	**To correct the difference between high volume and low volume when playing back with low volume (only for a DVD recorded with Dolby digital).** **AUTO :** The D. RANGE COMPRESSION function automatically works. **ON:** The D. RANGE COMPRESSION function always works.

* When using the supplied XV-EXA10, make sure that "DIGITAL AUDIO OUTPUT" is set to "PCM ONLY".

OTHERS

Items	Contents (: initial setting)
RESUME	**Select ON /OFF. (☞ page 26)**
ON SCREEN GUIDE	**Select ON /OFF. (☞ page 25)**
AV COMPULINK MODE	**When you want to control the supplied DVD player and the connected TV or other equipment at the same time, select a setting according to the type of terminal on the equipment connected to the DVD player. (Refer to "Using the AV COMPU LINK function" (☞ page 45).)** **DVD1 :** When the video 3 input terminal on the TV or the DVD input terminal is connected. **DVD2:** When the video 1 input terminal on the TV is connected. **DVD3:** When the video 2 input terminal on the TV is connected.
DivX REGISTRATION	**The DVD player has its own registration code. You can confirm the registration code, when necessary. Once you have played back a disc in which the registration code is recorded, the registration code of the DVD player is overwritten for copyright protection.**

For the locations of the remote control buttons, refer to page 38.

List of relationships of DIGITAL AUDIO OUTPUT preference items and output signal

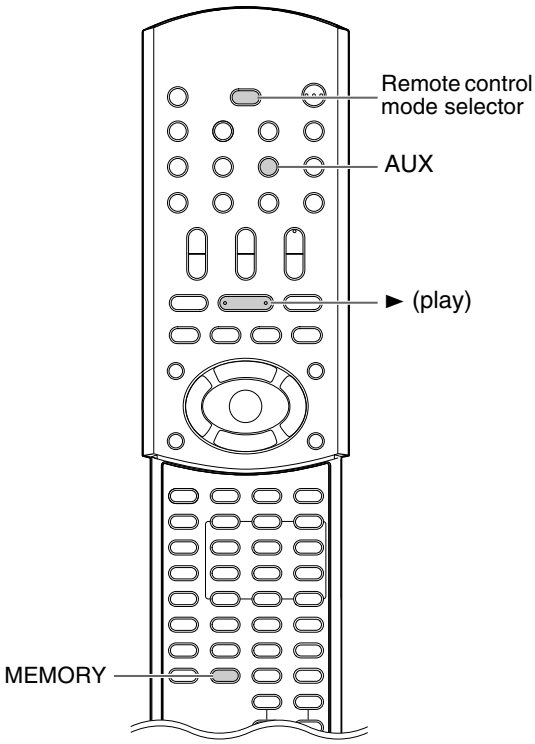
Playback disc	DIGITAL AUDIO OUTPUT preference		
	PCM ONLY	DOLBY DIGITAL/PCM	STREAM/PCM
48 kHz, 16/20/24 bit Linear PCM DVD VIDEO 96 kHz linear PCM DVD VIDEO	48 kHz, 16 bit stereo linear PCM		
48/96/192 kHz, 16/20/24 bit linear PCM DVD AUDIO*	48 kHz, 16 bit stereo linear PCM		
44.1/88.2/176.4 kHz, 16/20/24 bit linear PCM DVD AUDIO*	44.1 kHz, 16 bit stereo linear PCM		
DTS DVD VIDEO/DVD AUDIO*	48 kHz, 16 bit stereo linear PCM		DTS bit stream
DOLBY DIGITAL DVD VIDEO/DVD AUDIO*	48 kHz, 16 bit stereo linear PCM	DOLBY DIGITAL bit stream	
VCD/SVCD/CD	44.1 kHz, 16 bit stereo linear PCM/48 kHz, 16 bit linear PCM		
DTS CD	44.1 kHz, 16 bit linear PCM		DTS bit stream
MP3/WMA/DivX disc	32/44.1/48 kHz, 16 bit linear PCM		

NOTE

** Copyright-protected DVD AUDIOs do not output signals.*

- *Among DVD VIDEOs without copyright protection, there may be some DVD VIDEOs that output a 20 or 24 bit signal through the digital audio output terminals.*
- *To produce the sound from the loaded disc in the DVD player, select "PCM ONLY". Otherwise the receiver does not detect the signal and no sound is produced. (The initial setting is "PCM ONLY".)*

Listening to the sound of other audio equipment



Connect the other audio equipment to this system in advance (☞ page 12).

1 Slide the remote control mode selector to RECEIVER.

2 Press AUX to select "AUX-DIGITAL" or "AUX".

- Each time you press **AUX**, the display on the receiver toggles between "AUX-DIGITAL" and "AUX".
- The source changes to the signal from the AUX terminals.
- You can also use **SOURCE SELECT** on the receiver to select the signal from the AUX terminals as the sound source.

3 Begin playback on the other audio equipment.

- For details on beginning playback, refer to the manual of the connected equipment.

4 Adjust the volume and the sound quality of the system (☞ page 16).

NOTE

- *When no equipment is connected to the DIGITAL IN AUX terminal or the power of the connected equipment is off, after "AUX-DIGITAL" is selected, the display changes to "AUX-D UNLOCK".*

Adjust the sound input level of the audio equipment

You can adjust the sound input level of audio equipment connected to the AUX terminals.

1 Slide the remote control mode selector to RECEIVER.

2 Press AUX to select "AUX".

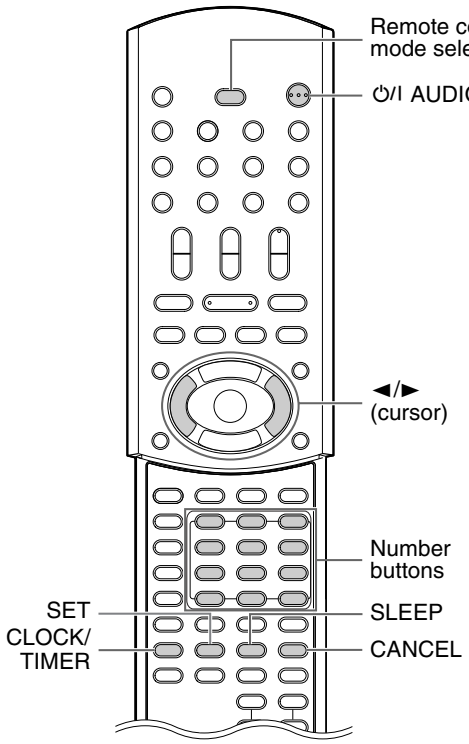
- Each time you press **AUX**, the display on the receiver toggles between "AUX-DIGITAL" and "AUX".
- The source changes to the signal from the AUX terminals.

3 Hold down MEMORY until the input level is displayed.

- Each time you hold down the button, the input level switches as follows:

LEVEL1 STORED: For normal use. (initial setting)

LEVEL2 STORED: To correct distorted sound caused by an extremely high input level from other equipment.



Using the sleep timer

When the time you specify elapses, the system will be turned off automatically.

1 Slide the remote control mode selector to RECEIVER.

2 Press SLEEP.

- Each time you press the button, the time indicated in the display window on the receiver changes (in minutes).

Example:
Display on the receiver when the sleep timer is set to 60 minutes

The sleep timer will be automatically set in a few seconds, and the indication will disappear.

NOTE

When the sleep timer is set, the display window darkens automatically.

Changing the time

Select the time again by pressing SLEEP repeatedly in step 2.

Confirming the time

Press SLEEP once in step 2 while the sleep timer is set.

Canceling the sleep timer

Press SLEEP repeatedly in step 2 until "SLEEP OFF" appears.

NOTE

- *The sleep timer will also be cancelled when the power is turned off.*

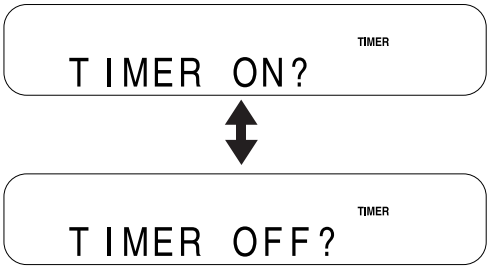
Using the playback timer

Set the clock beforehand. (☞ page 15)

1 **Slide the remote control mode selector to RECEIVER.**

2 **Press CLOCK/TIMER.**

Display on the receiver



- If you accidentally pressed **CLOCK/TIMER** twice or more, press **CLOCK/TIMER** repeatedly until the display shown above is displayed.

3 **Press SET.**

4 **Set the starting time and ending time with ◄, ► (cursor), and then press SET.**

Example:
Display on the receiver when setting the starting time to 8:45

Display on the receiver when setting the ending time to 9:45

- Press ◄ or ► (cursor) to select the value and press **SET** to set the value.
- You can use the number buttons instead of ◄ or ► (cursor). Refer to “Using the number buttons” (☞ page 15).

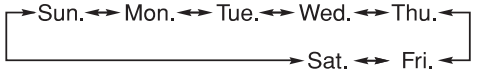
5 **Press ◄ or ► (cursor) to select “ONCE” or “WEEKLY”, and then press SET.**

ONCE	The playback timer works once.
WEEKLY	The playback timer works weekly or every day.

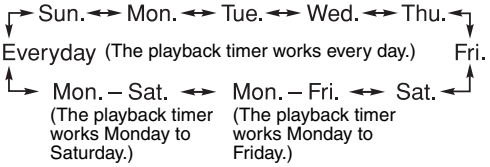
6 **Press ◄ or ► (cursor) to select the desired day of the week, and then press SET.**

- Each time you press ◄ or ► (cursor), the display changes as follows.

When “ONCE” is selected



When “WEEKLY” is selected



7 **Press ◄ or ► (cursor) to select the desired sound source, and then press SET.**

- If you have selected “FM” or “AM” in this step, press ◄, ► (cursor) or the number buttons to select the preset number of the radio station whose broadcast you want to listen to (Refer to “Using the number buttons” (☞ page 15)), and then press **SET**.

8 **Press ◄ or ► (cursor) to adjust the playback volume, and then press SET.**

- You can use the number buttons to specify the volume.
- The settings will appear in the display window on the receiver.

9 Press ⏻/I AUDIO to turn off the receiver.

- The playback timer is available only when the receiver is off.

This indicator lights up when the playback timer is activated.

NOTE

- *Complete the playback timer setting at least 1 minute prior to the starting time you have selected in step 4.*
- *While setting the playback timer, you can return to the previous step by pressing* **CANCEL** *or you can stop the setting by pressing* **CLOCK/TIMER**.
- *When the playback starts, the volume gradually increases to the selected level.*
- *You can make a variety of playback settings by combining the playback timer and saving the settings for program playback, random playback or repeat playback. (☞ page 31)*

Canceling the playback timer

Press CANCEL after following steps 1 and 2 on page 43.

NOTE

- *Even after you canceled the playback timer, the setting remains stored.*

Activating the playback timer again

After following steps 1 and 2 on page 43, press ENTER. Then press ⏻/I AUDIO to turn off the receiver.

NOTE

- *When the power cord of the receiver is disconnected from the AC outlet or the power is interrupted, the clock and the playback timer settings may be lost. If the settings are lost, set the clock and playback timer again.*

Confirming the playback timer settings

Press SET repeatedly after following steps 1, 2 and 3 on page 43.

- To return to the normal display while confirming the settings, press **CLOCK/TIMER**.

Changing the playback timer settings

Set the playback timer again from step 1 on page 43.

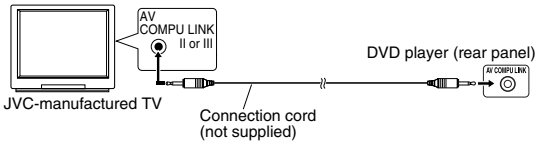
Using the AV COMPU LINK function

When a JVC-manufactured TV with AV COMPU LINK II or III terminals is connected to the DVD player using these terminals, operating either the TV or the DVD player controls the other equipment at the same time.

Connection and setup

NOTE

- *"AV COMPU LINK" is printed for terminals on some JVC-manufactured TVs. These terminals are no different from the "AV COMPU LINK I/II" or "AV COMPU LINK" terminal.*
- *Refer to "OTHERS" (☞ page 39) for determining the "AV COMPULINK MODE" setting.*
- *Also refer to the manual of the TV to be connected to the DVD player.*



Input terminal on the TV	"AV COMPULINK MODE" setting
Video 1	DVD2
Video 2	DVD1

- Connect the video 3 (DVD) input terminal on the TV.
- If the video 3 input terminal is used for the playback of a digital video movie, this terminal does not work with the AV COMPU LINK function.

Operation

1 **Turn on the main power of the TV.**

2 **Slide the remote control mode selector to DVD.**

3 **Press ▲ OPEN/CLOSE.**

- The disc tray ejects.

4 **Place a disc.**

5 **Press ► (play) or DVD.**

- The power of the TV is turned on.
- The input mode on the TV changes to either the video 1 input or the video 3 (DVD) input.

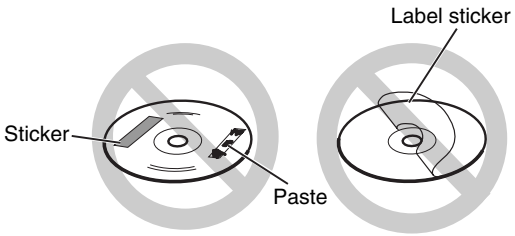
Notes on handling

■ Important cautions

Installation of the system
- Select a place which is level, dry and neither too hot nor too cold; between 5°C and 35°C.
- Leave sufficient distance between the system and the TV.
- Do not use the system in a place subject to vibration.

Power cord
- Do not handle the power cord with wet hands!
- A small amount of power is always consumed while the power cord is connected to the wall outlet.
- When unplugging the power cord from the wall outlet, always pull on the plug, not the power cord.

To prevent malfunctions of the system
- There are no user-serviceable parts inside. If anything goes wrong, unplug the power cord and consult your dealer.
- Do not insert any metallic object into the system.
- Do not use any non-standard shape disc (like a heart, flower or credit card, etc.) available on the market, because it may damage the system.
- Do not use a disc with tape, stickers, or paste on it, because it may damage the system.



Note about copyright laws
Check the copyright laws in your country before recording from DVDs, VCDs, SVCDs and CDs. Recording of copyrighted material may infringe copyright laws.

Note about copy guard system
DVDs are protected by copy guard system. When you connect the system to your VCR directly, the copy guard system activates and the picture may not be played back correctly.

■ Safety precautions

Avoid moisture, water and dust
Do not place the system in moist or dusty places.

Avoid high temperatures
Do not expose the system to direct sunlight and do not place it near a heat source.

When you are away
When away on travel or for other reasons for an extended period of time, disconnect the power cord plug from the wall outlet.

Care of the cabinet
When cleaning the system, use a soft cloth and follow the relevant instructions on the use of chemically-coated cloths. Do not use benzene, thinner or other organic solvents including disinfectants. These may cause deformation or discoloring.

Care of the disc tray
When cleaning the disc tray, gently wipe the dirt off the surface with a soft cloth dampened with a small amount of a neutral detergent diluted with water, preventing the discoloration and damage to its surface.

If water gets inside the system
Turn the system off and disconnect the power cord plug from the wall outlet, then call the store where you made your purchase. Using the system in this condition may cause fire or electrical shock.

■ When condensation or water drops adhere to the lens

In any of the following cases, condensation or water drops may adhere to the lens, preventing the system from working properly:
- Immediately after room heating starts
- When the system is installed in a steamy or damp space
- When the system is suddenly moved from a cold place to a warm space

In any of these cases, leave the system turned on for 1 or 2 hours before use.

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- ***"Official DivX Certified™ product", "Plays DivX® 5, DivX® 4, DivX® 3, and DivX® VOD video content (in compliance with DivX Certified™ technical requirements)", "DivX, DivX Certified", and associated logos are trademarks of DivXNetworks, Inc. and are used under license.***

Playable DVD/CD types

	CD-R/ CD-RW	DVD-R[1]	DVD-RW
Audio CD format	Playable	—	—
VCD/SVCD format	Playable	—	—
MP3/WMA/ JPEG format	Playable	Playable[4]	Playable[4]
DVD Video format	—	Playable	Playable
DVD VR format	—	Playable[2]	Playable
DivX format	Playable	Playable[3]	Playable
ASF (Advanced Systems Format)	Playable	Playable	Playable
MPEG1/MPEG2 format	Playable	Playable	Playable

- Discs should be finalized before being played back.

1 A DVD-R recorded in multi-border format is also playable (except for dual layer discs).
2 Only when a DVD-R is compatible with CPRM (Content Protection for Recordable Media), DVD VR format can be used.
3 A DivX formatted DVD-ROM is also playable.
4 Among MP3/WMA/JPEG discs, only discs formatted with a combination of Universal Disc Format and ISO 9660 (known as UDF Bridge) are playable.

Some discs may not be played back because of their disc characteristics, recording conditions, or damage or stains on them.

It is possible to play back finalized +R/+RW (DVD Video Format only) discs. “DVD” lights on the front display panel when a +R/+RW disc is loaded.

Only sounds can be played back from the following discs:

MIX-MODE CD CD-G
CD-EXTRA CD TEXT

This system accommodates the NTSC and PAL systems. When you play back an NTSC disc with the video signal type set to “PAL” (☞ page 13), the NTSC video signal is converted to the PAL60 signal and output.

Region code of DVD VIDEO

DVD VIDEO players and DVD VIDEO discs have their own Region Code numbers. This system can play back DVD VIDEO discs whose Region Code numbers include the system’s Region Code, which is indicated on the rear panel.

Examples:

For Australia, Central and South America

For the Middle East

Except for Australia, Central and South America and Middle East

If a DVD VIDEO with an improper Region Code number is loaded, “REGION CODE ERROR!” appears on the TV screen and playback cannot start.

- **On some DVD VIDEOs, DVD AUDIOs, VCDs, SVCDs or DivX discs, their actual operation may be different from what is explained in this manual. This is due to the disc programming and disc structure, not a malfunction of this system.**

Discs you can play back:

Disc Type	Mark (Logo)
DVD VIDEO	
DVD AUDIO	
VCD	
SVCD	
CD	
CD-R	
CD-RW	
DivX	

Discs that cannot be played back

- The following discs cannot be played back:
  DVD-ROM (except for MP3/WMA/JPEG/ASF/DivX/MPEG1/MPEG2 format), DVD-RAM, CD-ROM, CD-I (CD-I Ready), Photo CD, SACD, etc.
  Playing back these discs will generate noise and damage the speakers.

Damaged discs and discs in an extraordinary shape (other than a disc of 12 cm or 8 cm in diameter) cannot be played back.

About MP3/WMA/JPEG/ASF/DivX/MPEG1/MPEG2 discs

Playable MP3/WMA/JPEG/ASF/DivX/MPEG1/MPEG2 discs and files

- CDs recorded in the ISO 9660 format are playable (except CDs recorded in the “packet write” format (UDF format)).
- CDs recorded with multiple sessions are also playable.
- Files with an extension of “.mp3”, “.wma”, “.jpg”, “.jpeg”, “.asf”, “.divx”, “.div”, “.avi”, “.mpg” or “.mpeg” (extensions with uppercase and lowercase letters mixed are also acceptable) are playable.

Notes on MP3/WMA/JPEG/ASF discs and files

- A disc may not be played back, or reading it may take a long time depending on its recording conditions or properties.
- The time needed for reading varies with the number of groups or tracks (files) recorded on the disc.
- If a character other than single byte English characters is used in the file name of an MP3/WMA/JPEG/ASF file, the track/file name will not be displayed correctly.
- The order of tracks/groups displayed on the MP3/WMA control screen, and the order of files/groups displayed on the JPEG control screen may be different from that of files/folders displayed on a computer monitor screen.
- A commercially available MP3/WMA disc may be played back in an order different from that indicated on the label attached to the disc.
- Playing back an MP3/WMA/JPEG/ASF disc may take a long time. The elapsed time is not displayed until playback starts. The elapsed time may also not be displayed correctly.
- For an MP3/WMA file, a disc with a sampling frequency of 44.1 kHz and transmission rate of 128 kbps is recommended.
- This system can play back a baseline JPEG file, excluding monochromatic JPEG files.
- This system can play back JPEG data taken with a digital camera conforming to the DCF (Design Rule for Camera File System) standard (when a function such as the automatic image rotation function of a digital camera is applied, the data no longer complies with the DCF standard, so the image may not be displayed).
- If data has been processed, edited and restored with computer image editing software, the data may not be displayed.
- This system cannot play back animations such as MOTION JPEG, still images (TIFF etc.) other than JPEG, or image data with sound.
- The resolution of 640 x 480 pixels is recommended for JPEG files. If a file has been recorded at a resolution of more than 640 x 480 pixels, display may take a long time. An image with a resolution of more than 8 192 x 7 680 pixels cannot be displayed.
- The system supports ASF files recorded with the maximum bit rate of 384 kbps and an audio coder decoder of G.726.
- The maximum size of the playback picture is 352 x 288 pixels (CIF).

Notes on DivX discs and files

- The system supports DivX 5.x, 4.x and 3.11.
- The system supports DivX files with a resolution of 720 x 480 pixels or less (30 fps) and 720 x 576 pixels or less (25 fps).
- Audio stream should conform to MPEG1 Audio Layer-2 or MPEG Audio Layer-3 (MP3).
- The system does not support GMC (Global Motion Compression).
- Files encoded in the interlaced scanning mode may not be played back correctly.
- Playing back a DivX disc may take a long time. The elapsed time is not displayed until playback starts. The elapsed time may also not be displayed correctly.

Notes on MPEG1/MPEG2 discs and files

- The stream structure of MPEG1/MPEG2 discs and files should conform to MPEG system/program stream.
- 720 x 576 pixels (25 fps)/720 x 480 pixels (30 fps) is recommended for the highest resolution.
- This system also supports the resolutions of 352 x 576/480 x 576/352 x 288 pixels (25 fps) and 352 x 480/480 x 480/352 x 240 pixels (30 fps).
- The profile and level should be MP@ML (Main Profile at Main Level)/SP@ML (Simple Profile at Main Level)/MP@LL (Main Profile at Low Level).
- Audio streams should conform to MPEG1 Audio Layer-2 or MPEG2 Audio Layer-2.

Caution for DualDisc playback:

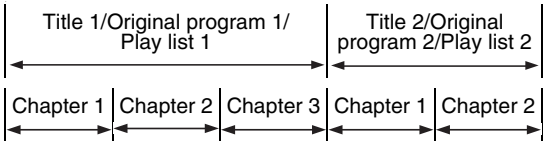
The Non-DVD side of a “DualDisc” does not comply with the “Compact Disc Digital Audio” standard. Therefore, the use of Non-DVD side of a DualDisc on this product may not be recommended.

Disc structure

DVD VIDEO/DVD VR

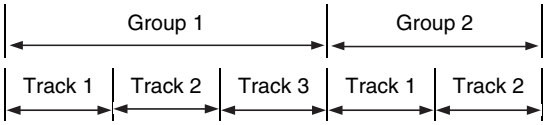
A DVD VIDEO consists of “titles” and each title may be divided into “chapters”.

A DVD VR consists of “original programs” or “play lists” and each original program/play list may be divided into “chapters”.



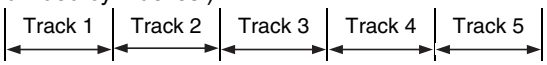
DVD AUDIO

A DVD AUDIO consists of “groups” and each group may be divided into “tracks”.
Some discs include a “bonus group” that requires a password for playback (☞ page 34).



VCD/SVCD/CD

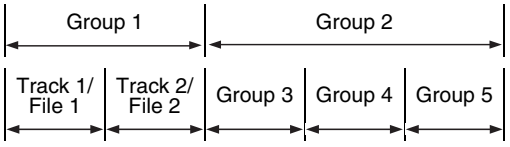
VCD, SVCD and CD consist of “tracks”.
In general, each track has its own track number. (On some discs, each track may also be further divided by indexes.)



MP3/WMA/JPEG/ASF/DivX/MPEG1/MPEG2 discs

On an MP3/WMA/JPEG/ASF/DivX/MPEG1/MPEG2 disc, each still picture (material) is recorded as a track/file. Tracks/files are usually grouped into a folder. Folders can also include other folders, creating hierarchical folder layers.

This system simplifies the hierarchical construction of a disc and manages folders by “groups”.



This system can recognize up to 4 000 tracks/files in a disc. Also, the system can recognize up to 150 tracks/files per group and up to 99 groups in a disc. Since the system ignores tracks/files with numbers exceeding 150 and groups with numbers exceeding 99, these cannot be played back.

- If there is any type of files other than MP3/WMA/JPEG/ASF/DivX/MPEG1/MPEG2 files in a folder, those files are also counted in the total file number.

Troubleshooting

When you encounter a problem that seems to be a fault, check the following points before contacting the JVC service center:

Power source

■ **Power does not come on.**
- The power cord of the receiver or the DVD player is not connected to an AC outlet.
  → Connect the power cord correctly. (☞ page 13)

Operation

■ **You cannot operate any button.**
- Some specific operations may be restricted for some discs.

■ **The remote control does not work.**
- The batteries have run out.
  → Replace the batteries. (☞ page 5)
- The remote control mode selector is slid to wrong position.
  → Most of the buttons on the remote control are assigned to specific remote control modes. Slide the remote control selector to the proper position referring to the explanation of each function.

■ **A disc cannot be played back.**
- In the case of DVD VIDEOs
  → Check the Region Code number of the disc. (☞ page 47)
- "PLAYABLE Err" is displayed in the display window.
  The disc cannot be played back on this DVD player.
  → Check the disc type. (☞ pages 47 and 48)

■ **MP3, WMA, JPEG, ASF, DivX, MPEG1 or MPEG2 files cannot be played back.**
- The loaded disc may include files of different types (MP3, WMA, JPEG, ASF, DivX, MPEG1 or MPEG2). You can play back only the files of the types selected with "FILE TYPE". (☞ page 39)

Images

■ **No picture appears.**
- The composite video cord is not connected correctly.
  → ☞ page 12
- An S-video cord and a component video cord are connected at the same time.
  → Connect either cord. (☞ page 13)

■ **The picture is distorted.**
- A video cassette recorder is connected between the DVD player and the TV.
  → Connect the DVD player directly to the TV. (☞ page 13)

■ **The screen size is abnormal.**
- The screen size is not set correctly.
  → Set "MONITOR TYPE" according to the TV you are using. (☞ page 39)

■ **The TV screen darkens.**
- "SCREEN SAVER" is set to "ON".
  → Press any button. (☞ page 39)

Sound

■ **There is no sound.**
- Speakers are not connected correctly.
  → ☞ page 9
- The receiver and the DVD player are not connected correctly.
  → ☞ page 10
- The sound is muted.
  → ☞ page 16
- "NO AUDIO" is displayed in the display window.
  The disc may have been produced through illegal copying.
  → Check the disc at the store where you bought the disc.

■ **The sound is distorted.**
- The volume is turned up too high.
  → Turn down the volume. (☞ page 16)

■ **No sound comes out of the subwoofer.**
- "S. WOOFER OFF" is selected.
  → Press **S.WFR OUT** repeatedly until "S. WOOFER ON" appears. (☞ page 11)

Radio

■ **The sound has a lot of static./You cannot receive a radio broadcast.**
- The antenna is not connected correctly.
  → Connect the antenna correctly. (☞ pages 7 and 8)

(Continued on the next page)

Other

■ **You cannot switch audio or subtitles between languages.**

- The disc does not contain multiple languages.
  → If only a single language is recorded on the disc, you cannot switch the current language to another language. (☞ page 32)

■ **No subtitle is displayed.**

- The disc does not contain any subtitles.
  → A DVD VIDEO without subtitles cannot display any subtitles.
- The subtitle language is set to "OFF".
  → Specify a language. (☞ page 38)
- Before or after point A or B in A-B repeat playback, no subtitle may be displayed.

■ **The disc cannot be ejected.**

- DVD/CD ejection is locked.
  → ☞ page 28

■ **"LR ONLY" is displayed in the display window (for a DVD AUDIO).**

- This is not a malfunction. When a down mix prohibited track is played back for multi-channel sound, the left and right sounds are output directly as they are.

■ **The tweeters produce no sound.**

- "Single Amp" is selected on the receiver.
  → Select "Bi-Amp". (☞ page 11)

If the system does not work properly despite correction measures aforementioned

Many functions of this system are controlled by microprocessors that can be reset by recycling the power supply. If pressing any button does not result in the normal action, disconnect the power cord from the outlet, wait for a while, and connect the power cord again.

Language codes

Code	Language	Code	Language
AA	Afar	MK	Macedonian
AB	Abkhazian	ML	Malayalam
AF	Afrikaans	MN	Mongolian
AM	Ameharic	MO	Moldavian
AR	Arabic	MR	Marathi
AS	Assamese	MS	Malay (MAY)
AY	Aymara	MT	Maltese
AZ	Azerbaijani	MY	Burmese
BA	Bashkir	NA	Nauru
BE	Byelorussian	NE	Nepali
BG	Bulgarian	NL	Dutch
BH	Bihari	NO	Norwegian
BI	Bislama	OC	Occitan
BN	Bengali, Bangla	OM	(Afan) Oromo
BO	Tibetan	OR	Oriya
BR	Breton	PA	Panjabi
CA	Catalan	PL	Polish
CO	Corsican	PS	Pashto, Pushto
CS	Czech	PT	Portuguese
CY	Welsh	QU	Quechua
DA	Danish	RM	Rhaeto-Romance
DZ	Bhutani	RN	Kirundi
EL	Greek	RO	Rumanian
EO	Esperanto	RU	Russian
ET	Estonian	RW	Kinyarwanda
EU	Basque	SA	Sanskrit
FA	Persian	SD	Sindhi
FI	Finnish	SG	Sangho
FJ	Fiji	SH	Serbo-Croatian
FO	Faroese	SI	Singhalese
FY	Frisian	SK	Slovak
GA	Irish	SL	Slovenian
GD	Scots Gaelic	SM	Samoan
GL	Galician	SN	Shona
GN	Guarani	SO	Somali
GU	Gujarati	SQ	Albanian
HA	Hausa	SR	Serbian
HI	Hindi	SS	Siswati
HR	Croatian	ST	Sesotho
HU	Hungarian	SU	Sundanese
HY	Armenian	SV	Swedish
IA	Interlingua	SW	Swahili
IE	Interlingue	TA	Tamil
IK	Inupiak	TE	Telugu
IN	Indonesian	TG	Tajik
IS	Icelandic	TH	Thai
IW	Hebrew	TI	Tigrinya
JI	Yiddish	TK	Turkmen
JW	Javanese	TL	Tagalog
KA	Georgian	TN	Setswana
KK	Kazakh	TO	Tonga
KL	Greenlandic	TR	Turkish
KM	Cambodian	TS	Tsonga
KN	Kannada	TT	Tatar
KO	Korean (KOR)	TW	Twi
KS	Kashmiri	UK	Ukrainian
KU	Kurdish	UR	Urdu
KY	Kirghiz	UZ	Uzbek
LA	Latin	VI	Vietnamese
LN	Lingala	VO	Volapuk
LO	Laothian	WO	Wolof
LT	Lithuanian	XH	Xhosa
LV	Latvian, Lettish	YO	Yoruba
MG	Malagasy	ZU	Zulu
MI	Maori		

Specifications

Receiver (RX-EXA10)

Tuner

FM frequency:	87.50 MHz - 108.00 MHz
AM frequency:	531 kHz – 1 710 kHz (9 kHz spacing) 530 kHz – 1 710 kHz (10 kHz spacing)

Amplifier

Output power (Tweeter):	20 W + 20 W at 6 Ω (10 kHz, THD 10 %)
Output power (Woofer):	30 W + 30 W at 6 Ω (1 kHz, THD 10 %)

Terminal

- Synchronization terminal x 1 (for connecting XV-EXA10)
- Optical digital input terminal x 1 (for connecting XV-EXA10)
  -21 dBm to -15 dBm
- Audio input terminals (2) x 1 (for connecting XV-EXA10)
  500 mV/50 k Ω
- Audio output speaker terminals (2) x 4
  Impedance: 6 Ω
- FM antenna terminal x 1
- AM antenna terminal x 1
- Audio output subwoofer terminal x 1
  500 mVrms/10 k Ω
- Optical digital input terminal x 1 (for connecting other equipment)
  -21 dBm to -15 dBm
- Audio input terminals (2) x 1 (for connecting other equipment)
  Level 1: 500 mV/50 k Ω
  Level 2: 250 mV/50 k Ω
- Audio output headphone terminal x 1
  11 mW/32 Ω (Impedance :16 Ω to 1 k Ω)

General

Power source (Hong Kong):	AC 220 V ∿, 50 Hz
Power source (Australia):	AC 240 V ∿, 50 Hz
Power source (other countries/areas):	AC 110 - 240 V ∿, 50 Hz/60Hz
Power consumption:	30 W (in operation) 0.9 W (on standby)
Dimensions (W x H x D):	245 mm x 80 mm x 297 mm
Weight (1 unit):	2.7 kg

Speakers (SP-EXA10)

Type:	2-way bass-reflex type Magnetically shielded type
Tweeter:	2 cm wood dome
Woofer:	10.5 cm wood cone
Power handling capacity: (Tweeter)	20 W
Power handling capacity: (Woofer)	30 W
Impedance:	6 Ω
Sound pressure level:	82 dB/W•m
Dimensions (W x H x D):	143 mm x 257 mm x 243 mm
Weight (1 unit):	3.5 kg

DVD player (XV-EXA10)

Playable DVDs/CDs

DVD VIDEO/DVD AUDIO
VCD/SVCD/CD
CD-R/RW (VCD/SVCD/CD/MP3/WMA/JPEG/DivX/ASF/MPEG1/MPEG2 format)
DVD-R (MP3/WMA/JPEG/DVD VIDEO/DVD VR [CPRM]/DivX/ASF/MPEG1/MPEG2 format)
DVD-RW (MP3/WMA/JPEG/DVD VIDEO/DVD VR [CPRM]/DivX/ASF/MPEG1/MPEG2 format)

Terminal

- Synchronization terminal x 1 (for connecting RX-EXA10)
- Optical digital output terminal x 1 (for connecting RX-EXA10)
  -21 dBm to -15 dBm
- Audio output terminals (2) x 1 (for connecting RX-EXA10)
- Composite video output terminal x 1
  1.0 Vp-p, sync negative, 75 Ω terminated
- S-video output terminal x 1
  Y: 1.0 Vp-p, sync negative, 75 Ω terminated
  C: 0.286 Vp-p, sync negative, 75 Ω terminated
- Component video output terminals (3)
  Y: 1.0 Vp-p, sync negative, 75 Ω terminated
  P_B: 0.7 Vp-p, 75 Ω terminated
  P_R: 0.7 Vp-p, 75 Ω terminated
- AV COMPU LINK terminal x 1

General

Power source (Hong Kong):	AC 220 V ∿, 50 Hz
Power source (Australia):	AC 240 V ∿, 50 Hz
Power source (other countries/areas):	AC 110 - 240 V ∿, 50 Hz/60Hz
Power consumption:	9 W (in operation) 0.9 W (on standby)
Dimensions (W x H x D):	245 mm x 80 mm x 270 mm
Weight (1 unit):	2.2 kg

Designs and specifications are subject to change without notice.

EX-A10 COMPACT COMPONENT SYSTEM

JVC

EN

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