

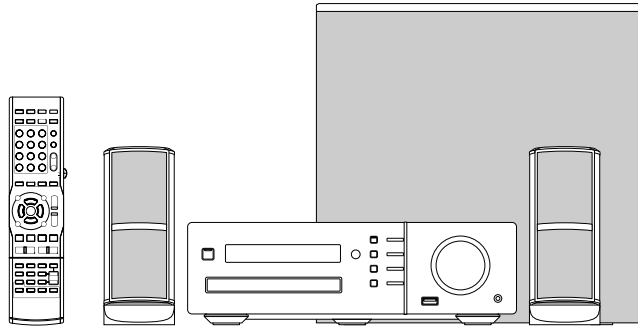
JVC



COMPACT COMPONENT SYSTEM

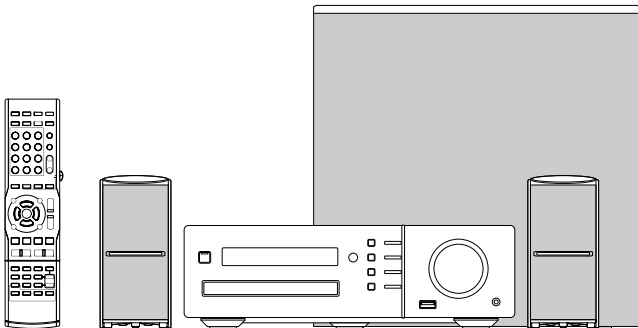
NX-F7

Consists of CA-NXF7,
SP-NXF7F and SP-NXF7W



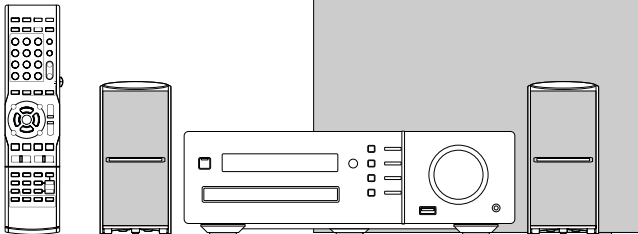
NX-F3

Consists of CA-NXF3,
SP-NXF3F and SP-NXF3W



NX-F4B

Consists of CA-NXF4B,
SP-NXF4BF and SP-NXF4BW



HDMI



MPEG-4
ASF PLAYBACK

Digital Direct Progressive Scan

Radio Data System



INSTRUCTIONS

Warnings, cautions and others

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 — ϕ /I button!

Disconnect the mains plug to shut the power off completely (the STANDBY lamp goes off). When installing the apparatus, ensure that the plug is easily accessible.

The ϕ /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.

CAUTION

- Excessive sound pressure from earphones or headphones can cause hearing loss.

IMPORTANT FOR LASER PRODUCTS

1. CLASS 1 LASER PRODUCT
2. **CAUTION:** Do not open the top cover or cabinet. 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 view directly with optical instruments.
4. REPRODUCTION OF LABEL: CAUTION LABEL, PLACED INSIDE THE UNIT.

CAUTION VISIBLE AND/OR INVISIBLE CLASS 1M LASER RADIATION WHEN OPEN, DO NOT VIEW DIRECTLY WITH OPTICAL INSTRUMENTS. IEC60825-1:2001 (ENG)	ATTENTION RAYONNEMENT LASER VISIBLE ET/OU INVISIBLE DE CLASSE 1M UNE FOIS OUVERT NE PAS REGARDER DIRECTEMENT AVEC DES INSTRUMENTS OPTIQUES. (FRA)	AVISO RADIACION LÁSER DE CLASE 1M VISIBLE Y/O INVISIBLE CUANDO ESTÁ ABIERTO, NO MIRAR DIRECTAMENTE CON INSTRUMENTAL OPTICO. (ESP)	VARNING SYNLLIG OCH/ELLER OSYNLLIG LASERSTRÅLNING, KLAS 1M, NÄR DENNA DEL ÄR ÖPPNAD. BETRÄKTA EJ STRÅLEN MED OPTISKA INSTRUMENT. (SWE)	注意 ここを開くと可視 及び/または不可視 のクラス1M レーザー放射が 出ます。 光学装置で直視 しないでください。 (JPN)	CAUTION VISIBLE AND/OR INVISIBLE CLASS 1 LASER RADIATION WHEN OPEN, DO NOT STARE INTO BEAM. FDA 21 CFR (ENG) LV44603-003A
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CAUTION — Proper Ventilation

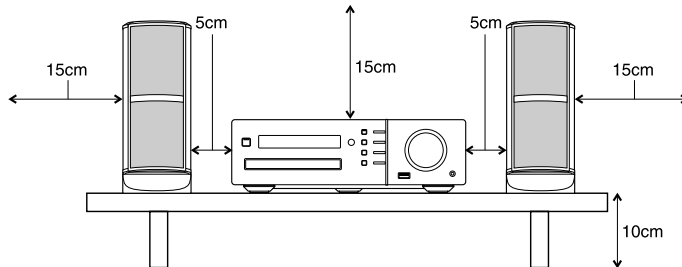
To avoid risk of electric shock and fire and to protect from damage, locate the apparatus as follows:

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

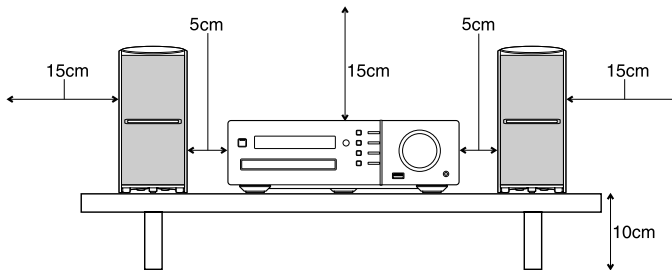
Bottom: Place on the level surface. Maintain adequate air path for ventilation by placing on a stand with a height of 10 cm more.

In addition, maintain the best possible air circulation.

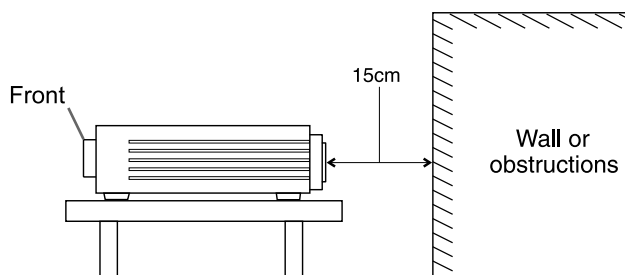
Front view of the main unit and speakers (CA-NXF7 and SP-NXF7F)



Front view of the main unit and speakers (CA-NXF3 and SP-NXF3F/CA-NXF4B and SP-NXF4BF)



Side view of the main unit (CA-NXF7/CA-NXF3/CA-NXF4B)



CAUTION

- Battery shall not be exposed to excessive heat such as sunshine, fire or the like.

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 of 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.

Dear Customer,

This apparatus is in conformance with the valid European directives and standards regarding electromagnetic compatibility and electrical safety.

European representative of Victor Company of Japan, Limited is:

JVC Technology Centre Europe GmbH

Company name changed in:

JVC Technical Services Europe GmbH

Postfach 10 05 52

61145 Friedberg

Germany

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.

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.

Do read the operating instructions before you attempt to use the equipment.

Do ensure that all electrical connections (including the mains plug, extension leads and interconnections between pieces of equipment) are properly made and in accordance with the manufacturer's instructions. Switch off and withdraw the mains plug when making or changing connections.

Do consult your dealer if you are ever in doubt about the installation, operation or safety of your equipment.

Do be careful with glass panels or doors on equipment.

DON'T continue to operate the equipment if you are in any doubt about it working normally, or if it is damaged in any way — switch off, withdraw the mains plug and consult your dealer.

DON'T remove any fixed cover as this may expose dangerous voltages.

DON'T leave equipment switched on when it is unattended unless it is specifically stated that it is designed for unattended operation or has a standby mode.

Switch off using the switch on the equipment and make sure that your family know how to do this.

Special arrangements may need to be made for infirm or handicapped people.

DON'T use equipment such as personal stereos or radios so that you are distracted from the requirements of traffic safety. It is illegal to watch television whilst driving.

DON'T listen to headphones at high volume as such use can permanently damage your hearing.

DON'T obstruct the ventilation of the equipment, for example with curtains or soft furnishings.

Overheating will cause damage and shorten the life of the equipment.

DON'T use makeshift stands and NEVER fix legs with wood screws — to ensure complete safety always fit the manufacturer's approved stand or legs with the fixings provided according to the instructions.

DON'T allow electrical equipment to be exposed to rain or moisture.

ABOVE ALL

— NEVER let anyone, especially children, push anything into holes, slots or any other opening in the case.
— this could result in a fatal electrical shock.

— NEVER guess or take chances with electrical equipment of any kind — it is better to be safe than sorry!

E43486-340B

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Thank you for purchasing a JVC product.

Please read all instructions carefully before operation, to ensure your complete understanding and to obtain the best possible performance from the unit.

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How to read this manual

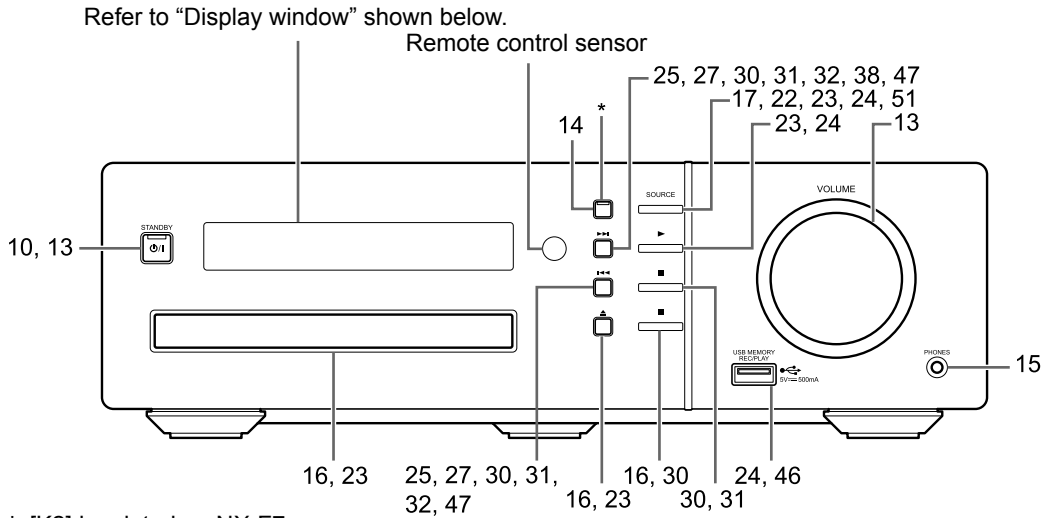
- This manual explains the operations assuming that you will use the remote control. Some buttons on the main unit are the same as those on the remote control. You can use either button in this case.
- Some diagrams in this manual are simplified or exaggerated for the purpose of explanation.
- You can operate some functions differently from the explanation given in this manual.
- Depending on the disc/file, you may not obtain the explained result even after following the operation in this manual.
- The following marks refer to the usable discs/files for the explained function.



Part description

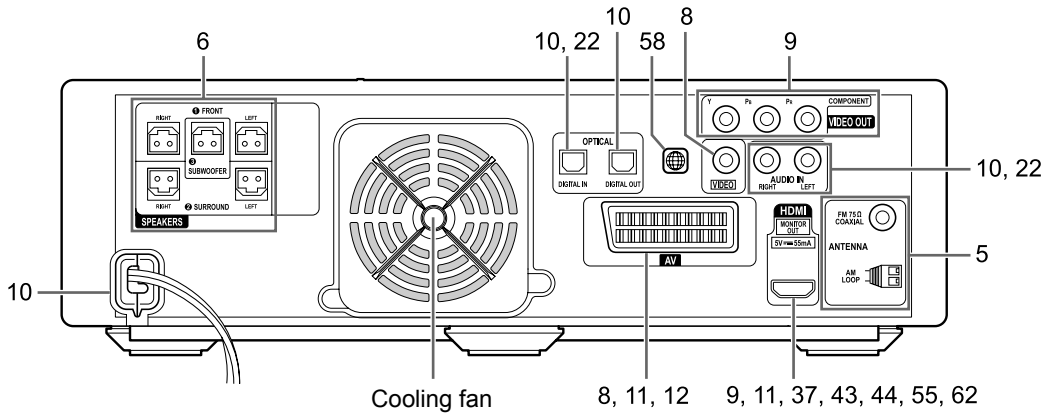
The numbers refer to the pages in which the parts are explained.

Front view

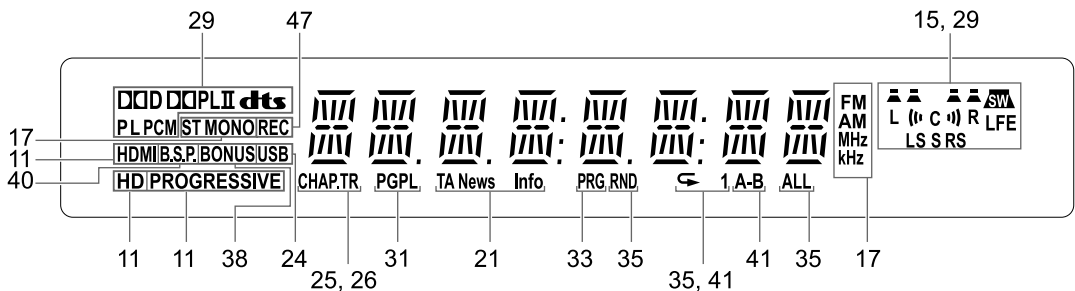


* [K2] is printed on NX-F7.
[SURROUND] is printed on NX-F3/NX-F4B instead.

Rear view

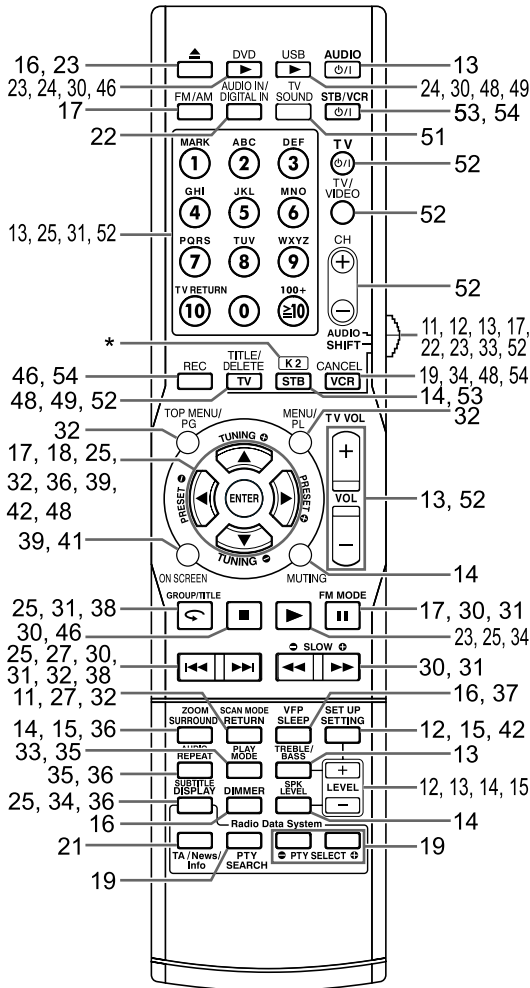


Display window



Using the remote control

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

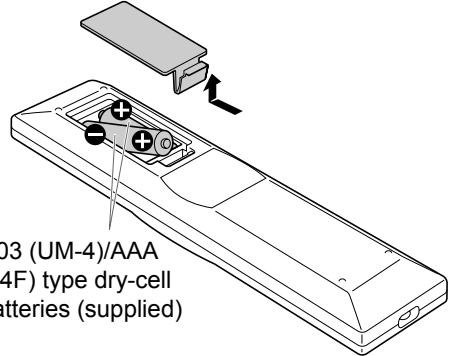


NOTE

* [K2] is printed on the remote control for NX-F7 only.

Inserting the batteries into the remote control

Insert the batteries into the remote control by matching the polarity (+ and -) correctly.



R03 (UM-4)/AAA
(24F) type dry-cell
batteries (supplied)

- If the range or effectiveness of the remote control decreases, replace both batteries.

Operating the system from the remote control

Point the remote control directly at the front of the main unit.

- Do not block the remote control sensor on the main unit.

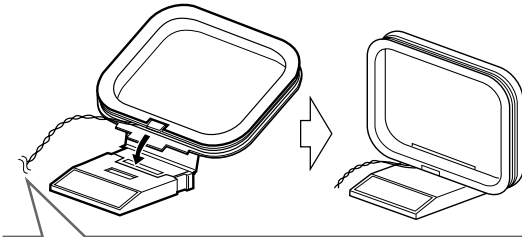
Preparation

Do not connect the power cable until all other connections have been made.

Connecting the antennas

AM loop antenna (supplied)

Setting up the AM loop antenna



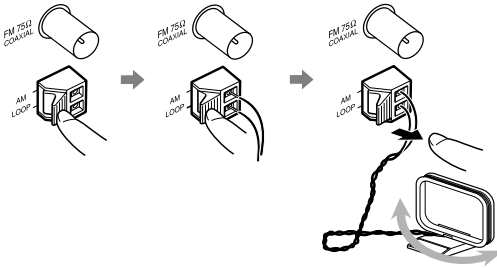
If insulation covers the tips of the antenna cable, twist and pull off the insulation.

NOTE

- Keep the AM loop antenna cable wrapped around the AM loop antenna frame, otherwise the effectiveness and sensitivity of the AM loop antenna may be reduced.

Connecting the AM loop antenna

Main unit (rear view)



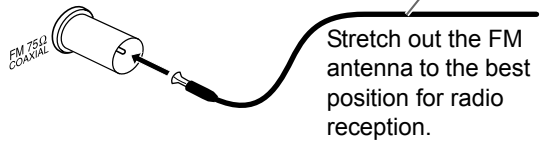
Turn the AM loop antenna to find the best position for radio reception.

NOTE

- Make sure that the antenna conductors do not touch any other terminals. This could cause poor reception.

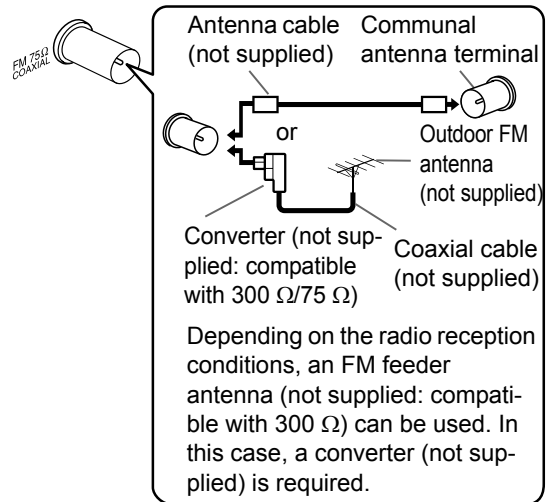
FM antenna (supplied)

Main unit (rear view)



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

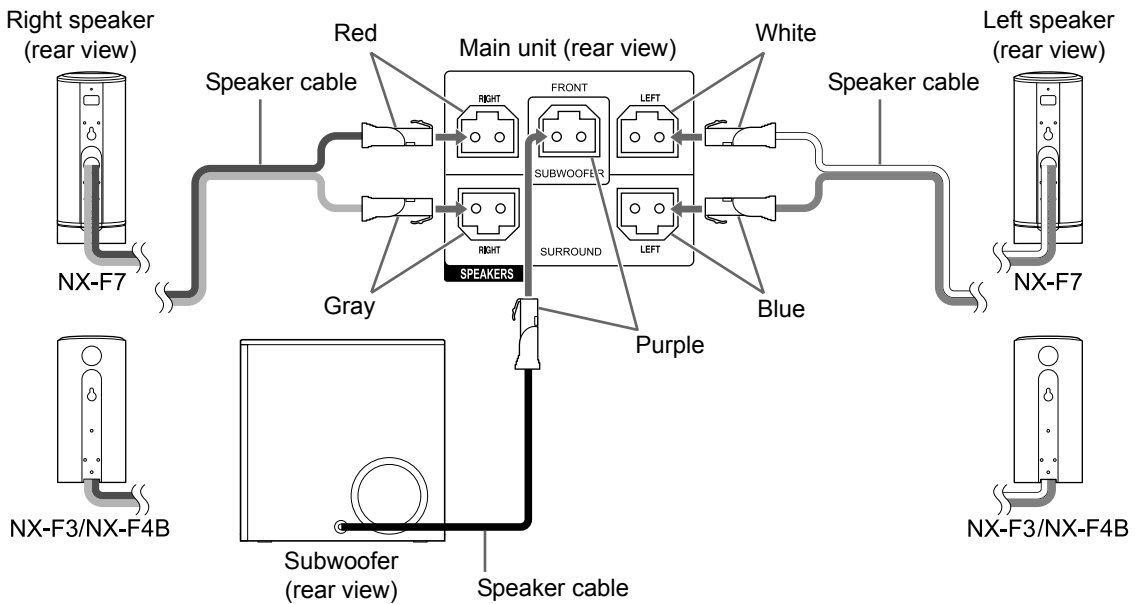
Main unit (rear view)



- 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" on page 17).
- You cannot receive an FM/AM radio broadcast without the antenna connection.

Connecting the speakers and subwoofer

Connect the speakers to the main unit by connecting the colored connectors to the same color terminals on the rear of the main unit.



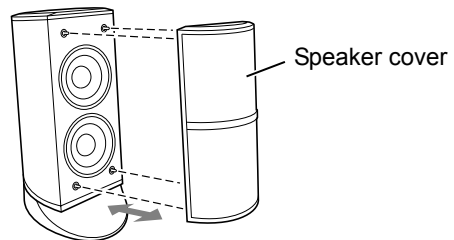
■ IMPORTANT

- Improper speaker cable connection reduces the stereo effect and sound quality.
 - The supplied left/right 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.
(The subwoofer is not magnetically shielded.)
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 approximately 30 minutes before turning on the main power of the TV again.

CAUTION

- The supplied speakers are manufactured exclusively for use with the supplied main unit as parts of the NX-F7/NX-F3/NX-F4B system. Do not connect the supplied speakers to devices other than the supplied main unit. Doing so may damage the speakers.
- Do not connect external speakers together with the supplied speakers. The change in impedance may damage the main unit and the speakers.

You can detach the speaker cover.
(Only for NX-F7)

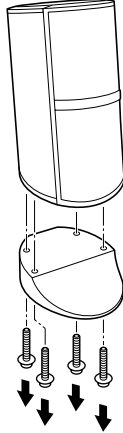


Using the speakers with commercially available speaker stands

The left and right speakers can be fitted onto commercially available speaker stands. Before fitting the speakers onto commercially available speaker stands, follow the instructions shown below.

Left and right speakers for NX-F7

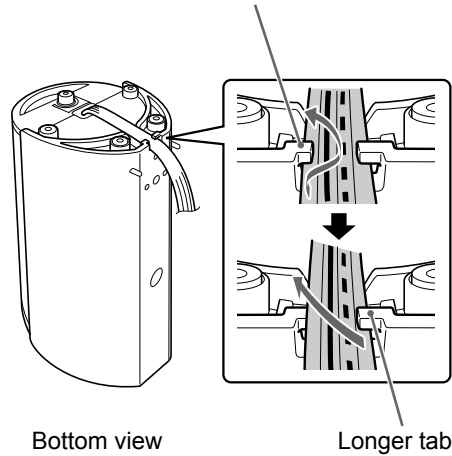
Detach the original speaker stands.



Left and right speakers for NX-F3/NX-F4B

Remove the speaker cables from the tabs and slots on the speakers.

Remove the cable from the shorter tab first.

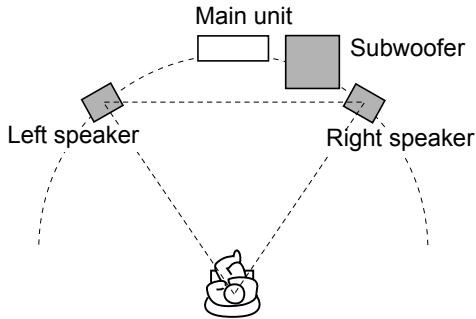


CAUTION

- The left and right speakers can be installed on a wall.
- When installing the speakers on a wall, be sure to have the speakers installed by qualified personnel.
- DO NOT install the speakers on the wall by yourself to avoid unexpected damage from them falling off the wall due to incorrect installation or weakness in wall structure.
- Care must be taken in selecting a location for speaker installation on a wall. Injury to personnel or damage to devices may result if the installed speakers interfere with daily activities.

Speaker layout

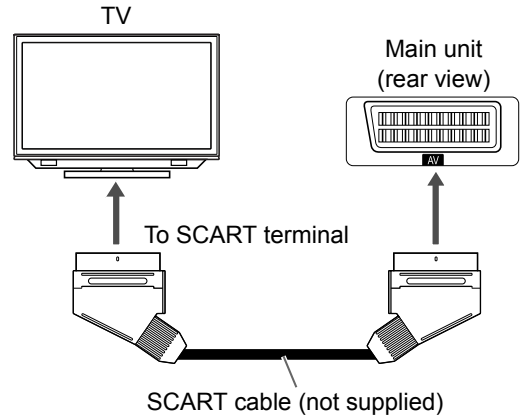
This system is designed to provide virtual surround sound by positioning the 3 speakers in front. (The set of the left and right speakers and the subwoofer refers to 2.1 channel.) The front surround function processes input signals to create a realistic sound field.



Connecting a TV

After connecting a TV, follow the instructions on pages 11 and 12.

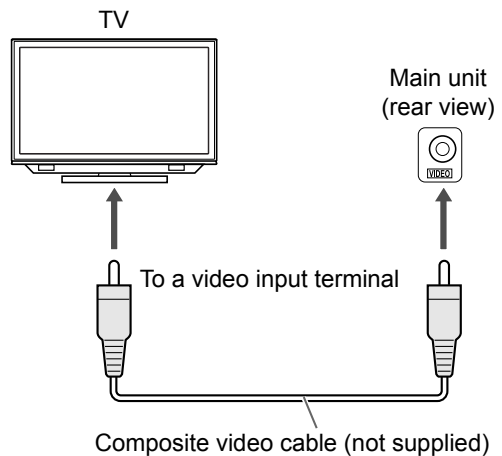
Connecting a TV with the [AV] terminal



NOTE

- No audio signal is output from the [AV] (SCART) terminal to the TV.

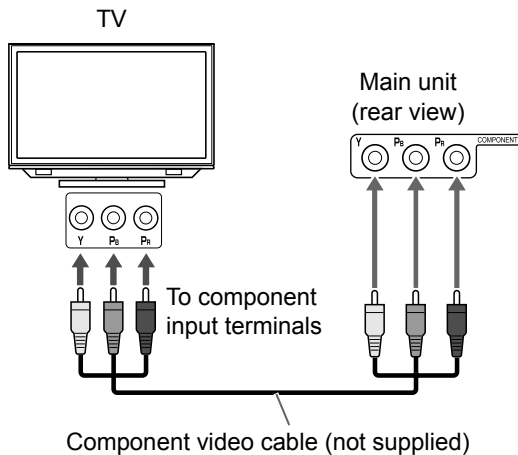
Connecting a TV with the [VIDEO] terminal



NOTE

- When you want to listen to sound from a TV, connect the TV to the [AV] terminal as well as the [VIDEO] terminal.

Connecting a TV with the [COMPONENT] terminals

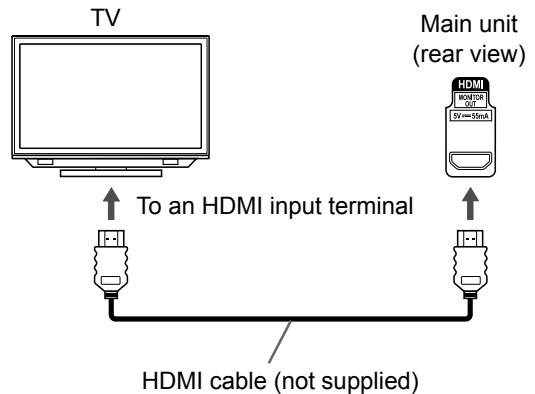


NOTE

- When you want to listen to sound from a TV, connect the TV to the [AV] terminal as well as the [COMPONENT] terminals.

Connecting a TV with the [HDMI MONITOR OUT] terminal

This system can output uncompressed digital video signals to a TV compatible with HDMI (High Definition Multimedia Interface).

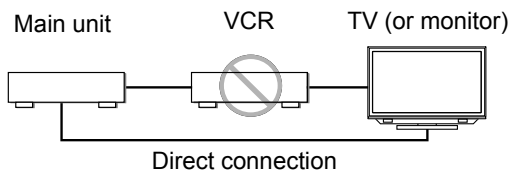


NOTE

- The HDMI video signal type can be checked with the "HDMI" indicator in the display window. (Refer to "Selecting the video signal type" on page 11.)
- If the picture is distorted while an HDMI TV is connected, turn off the main unit and turn it on again.
- A TV compatible with HDCP (High-Bandwidth Digital Content Protection) can also be connected to the [HDMI MONITOR OUT] terminal, so that the uncompressed HD video signal type can be output as well.
- This system is compatible with some basic functions of HDMI CEC. (Refer to page 55.)
- When you want to listen to sound from a TV, connect the TV to the [AV] terminal as well as the [HDMI MONITOR OUT] terminal.

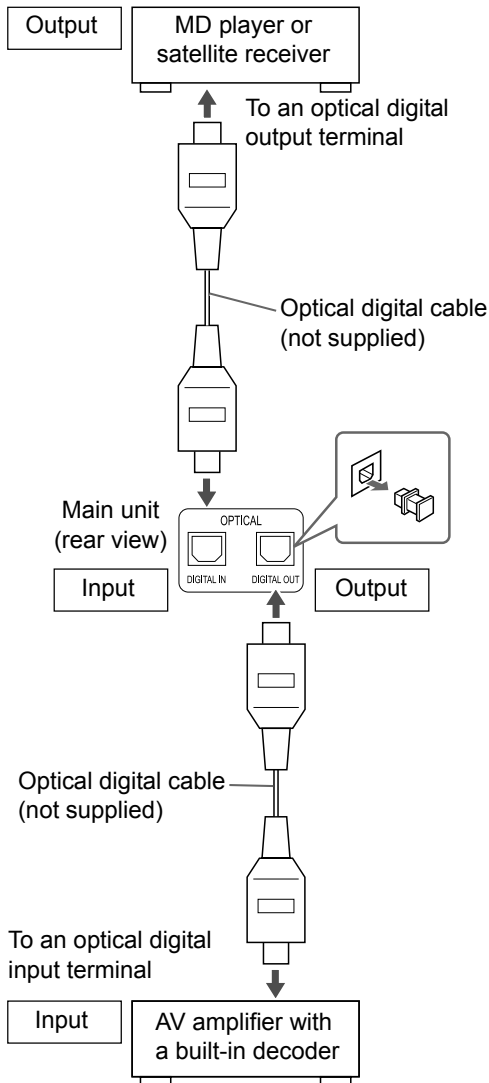
■ IMPORTANT

- Connect the main unit directly to a TV (or a monitor) without routing through a video cassette recorder (VCR). Otherwise picture distortion may occur during playback. (Routing the connection through a VCR, however, does not affect the audio quality.)



- Connecting the main unit to a VCR-built-in-TV may also cause picture distortion during playback.

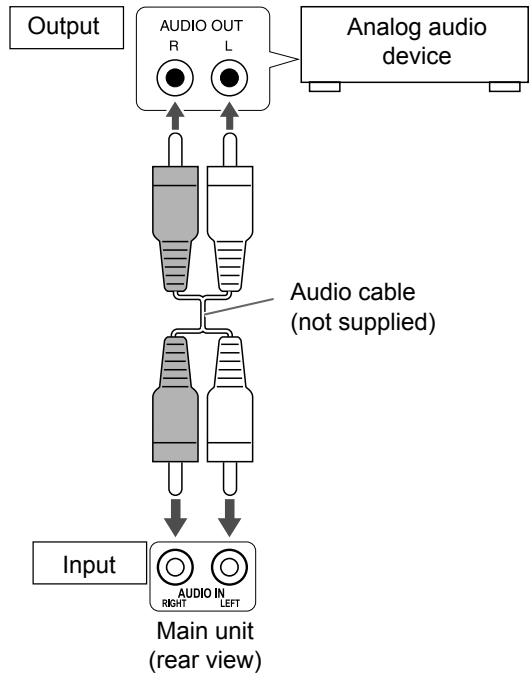
Connecting external digital audio devices



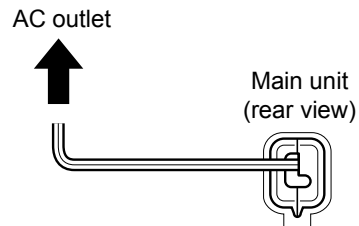
NOTE

- You can output the audio signal from the [DIGITAL OUT] terminal when “DVD”, “USB” or “DGTL IN” is selected as the source in the display window.
- When “DGTL IN” is selected as the source in the display window, digital audio from the [DIGITAL OUT] terminal is decoded to a linear PCM signal.

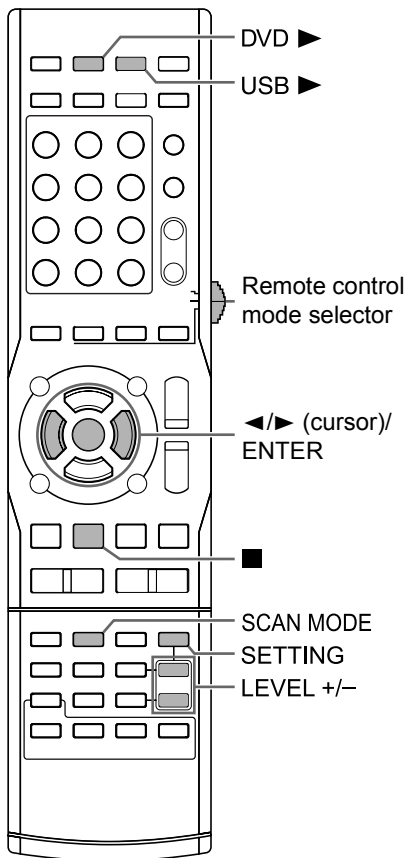
Connecting external analog audio devices



Connecting the power cable



- Connect the power cable after you complete the other connections.
- The [STANDBY \odot /I] lamp on the main unit lights up.

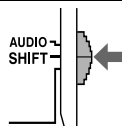


Selecting the video signal type

To view an image on the TV screen, select the video signal type correctly according to the TV after connecting the main unit to the TV.

■ IMPORTANT

- Slide the remote control mode selector to [SHIFT].



1 Turn on the main unit.

- Refer to "Turning on/off the main unit" on page 13.

2 Press [DVD ▶] or [USB ▶].

- When a disc is loaded or a USB device is connected, press ■ to stop playback.

3 Press [SCAN MODE].

- The current video signal type appears.

Example: When "RGB" is selected as the video signal

RGB

4 Press ◀ or ▶ (cursor) to select the video signal type suitable for the TV.

- When the TV is connected to the [AV] terminal, select "RGB" or "Y/C". ("RGB" is the recommended setting.)
- When the TV is connected to the [VIDEO] terminal, select "RGB".
- When the TV is connected to the [COMPONENT] terminals, select "576P".
- When the TV is connected to the [HDMI MONITOR OUT] terminal, the video signal type can be selected as instructed below.
 - Select "AUTO" for normal usage. (the initial setting)
 - Select "576P", "720P", "1080I" or "1080P" as needed. (The selectable settings differ according to the resolution of the connected TV.)
- You can also select the video signal type by repeatedly pressing [SCAN MODE].

NOTE

- "576", "720" and "1080" refer to the number of the scanning lines. Generally, the larger the number, the better picture that can be obtained.
- "I" refers to the interlaced format. "P" refers to the progressive format. A better picture can be obtained in the progressive format than in the interlaced format.
- When an HDMI video signal is output, the "HDMI" indicator lights up in the display window.
- When an HD video signal is output, the "HD" indicator lights up.
- When "576P", "720P" or "1080P" is selected, the "PROGRESSIVE" indicator lights up in the display window.

5 Press [ENTER].

NOTE

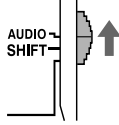
- It is recommended that you slide the remote control mode selector to [AUDIO] after selecting the video signal type. Most of the other functions can be used when the remote control mode selector is at [AUDIO].
- When the [AV] and [HDMI MONITOR OUT] terminals are connected at the same time, the image from the [AV] terminal is not displayed properly.
- Even if the main unit is turned off, the video signal type setting is stored.

Setting for using a SCART cable

When the main unit and a TV are connected with a SCART cable, follow the instructions shown below.

■ IMPORTANT

- Slide the remote control mode selector to [AUDIO].

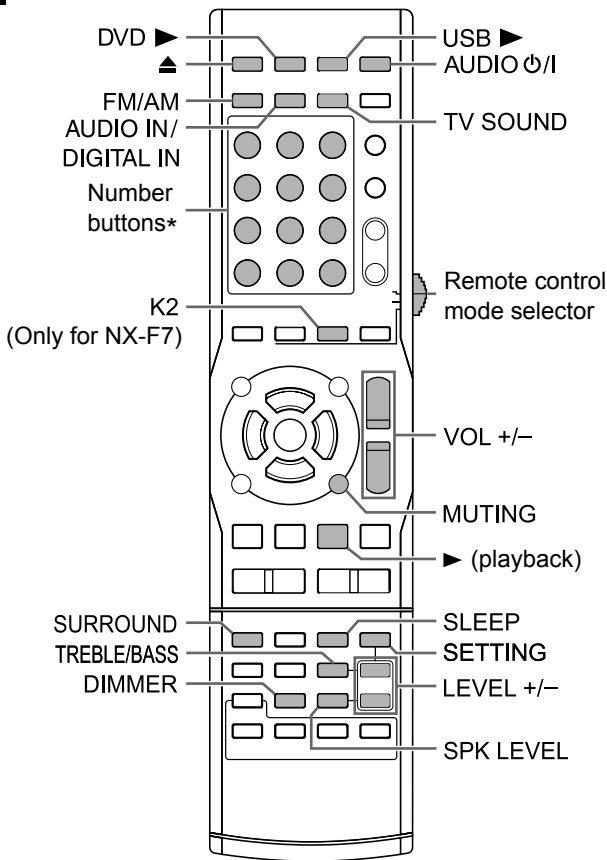


- 1 Turn on the main unit.**
 - Refer to “Turning on/off the main unit” on page 13.
- 2 Press [SETTING] repeatedly to select “SCART” in the display window.**
- 3 Press [LEVEL +] or [LEVEL -] repeatedly to select the desired setting in the display window.**
 - Each time you press [LEVEL +] or [LEVEL -], the setting toggles between “SCART: AV” (audio and video) and “SCART: A” (audio).
 - Select “SCART: AV” when the main unit and TV are connected only with a SCART cable.
 - Select “SCART: A” when the main unit and TV are connected with a composite video cable, component video cable or HDMI cable, in addition to a SCART cable.

NOTE

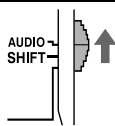
- When “SCART: A” is selected, operate the connected TV to select the input video signal.

Basic operations



■ IMPORTANT

- Slide the remote control mode selector to [AUDIO].



Using the number buttons

Examples:

5: [5]

15: [≧10] → [1] → [5]

150: [≧10] → [≧10] → [1] → [5] → [0]

Turning on/off the main unit

Press [AUDIO ◊/I] (or [STANDBY ◊/I] on the main unit).

- The power of the main unit turns on and the [STANDBY ◊/I] lamp (button) on the main unit turns off.
- Press [AUDIO ◊/I] (or [STANDBY ◊/I] on the main unit) again to turn off the power of the main unit. (The main unit enters the standby mode.)
- With the power off, pressing any of the following buttons also turns on the main unit.
 - [DVD ►], [USB ►], [FM/AM], [AUDIO IN/DIGITAL IN], [TV SOUND], ► (playback) or ▲ on the remote control
 - (playback) or ▲ on the main unit

The function assigned to the pressed button starts working at the same time. (When ► (playback) is pressed, "DVD" is selected as the source in the display window.)

- An internal cooling fan turns on when the main unit turns on. This is to prevent overheating of the main unit. The cooling fan produces noise during operation. This is not a malfunction.

Adjusting the volume

Press [VOL +] or [VOL -] repeatedly.

- You can also adjust the volume by turning the [VOLUME] control on the main unit.

Turning off the sound temporarily

Press [MUTING].

- Press [MUTING] again or [VOL +] or [VOL -], or turn the [VOLUME] control on the main unit to restore the sound. The sound is also restored when the main unit is turned off once and turned on.

Adjusting the treble/bass

1 Press [TREBLE/BASS] repeatedly to select "TRE" or "BASS" in the display window.

2 Press [LEVEL +] or [LEVEL -] repeatedly to adjust the sound quality.

- Adjustable sound quality is from -10 to +10.

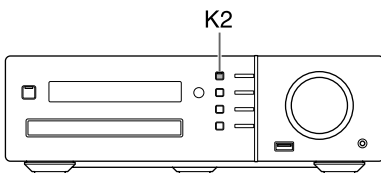
Enhancing the playback sound (K2) (Only for NX-F7)

The K2 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).

Press [K2] on the remote control or on the main unit.

- When the K2 function is activated, the [K2] lamp (button) on the main unit lights up.
- Each time you press [K2], the display changes as follows.
 - "K2 MODE1":
Plays back a digital source with non-compressed sound signals (linear PCM). Realistically reproduces the sound of the master source.
 - "K2 MODE2":
Plays back a digital source with compressed sound signals (Dolby digital, DTS, MP3, WMA or WAV). This mode produces the same effect as "K2 MODE1" for compressed sound.
 - "K2 MODE3":
Plays back a digital source with non-compressed sound signals (linear PCM) and a broader sound field than that of "K2 MODE1".
 - "K2 MODE4":
Plays back a digital source with compressed sound signals (Dolby digital, DTS, MP3, WMA or WAV). This mode produces the same effect as "K2 MODE3" for compressed sound.
 - "K2 OFF":
Cancels the K2 function.



NOTE

- The original range of frequency is automatically detected and extended to a specific range.

Adjusting the volume level for surround/subwoofer sound

You can adjust the volume level for the left and right surround sound and the subwoofer sound respectively.

- 1 Press [SPK LEVEL] repeatedly to select "SURR" or "SUBWFR" in the display window.**
 - "SURR" refers to the left and right surround sound.
 - "SUBWFR" refers to the subwoofer sound.
- 2 Press [LEVEL +] or [LEVEL -] repeatedly to adjust the volume level.**
 - The adjustable volume range is from -6 to +6.

Selecting the surround mode

Press [SURROUND].

- Each time you press [SURROUND], the display changes in the display window as follows.
 - "AUTO SUR"
When a multi-channel signal is input, surround sound is automatically produced.
 - "MOVIE"
Surround sound suitable for a movie or multi-channel signal is produced.
 - "WIDE/2CH"
When a 2ch signal is input, surround sound is produced. The sound is broader than the one with "MOVIE".
 - "SUPER W"
Surround sound broader than the one with the "WIDE/2CH" is produced.

NOTE

- Depending on the signal type, surround sound may not be produced as the surround mode setting.
- During playback, when you change the surround mode setting, sound from the [DIGITAL OUT] terminal may be intermittent. Before recording sound to an external device, select the desired surround mode setting.
- This function does not work for a JPEG/ASF/DivX/MPEG1/MPEG2 file.

Selecting the headphone surround mode

You can listen to surround sound via headphones connected to the [PHONES] terminal.

- When headphones are connected to the [PHONES] terminal

Press [SURROUND].



H.P. SURR

- Each time you press [SURROUND], the setting toggles between “H.P. SURR” and “H.PHONE” in the display window.

NOTE

- The [PHONES] terminal is for connecting a pair of headphones equipped with a stereo mini plug (not supplied). When headphones are connected, no sound is output from the speakers.
- This function does not work for a JPEG/ASF/DivX/MPEG1/MPEG2 file.

Sharpening the voice sound

This function allows you to easily understand dialog recorded on the disc/file even with the volume down low. This function is useful when you are watching a movie.

1 Press [SETTING] repeatedly to select “CLR VOIC” in the display window.

- “CLR VOIC” refers to a clear voice.

2 Press [LEVEL +] or [LEVEL -] repeatedly to select “CLR: ON” in the display window.

This indicator lights up when the clear voice function is activated.



- Each time you press [LEVEL +] or [LEVEL -] the clear voice function turns on and off.
- When you want to deactivate the clear voice function, select “CLR: OFF”.

Selecting the surround volume level

You can increase the surround volume level. This function is effective for the following conditions:

- (1) When the surround mode is set to an item other than “AUTO SUR” (Refer to page 14.)
- (2) When the surround mode is set to “AUTO SUR” and a DVD VIDEO, DVD AUDIO or DVD VR is played back (Refer to page 23.)
- (3) When the surround mode is set to “AUTO SUR” and the source is set to “DGTL IN” (Refer to page 22.)

1 Press [SETTING] repeatedly to select “SURR VOL” in the display window.

2 Press [LEVEL +] or [LEVEL -] repeatedly to select the desired setting in the display window.

- Each time you press [LEVEL +] or [LEVEL -], the surround volume level display changes to one of three levels. The surround volume level increases in the order of “SURR: NRML”, “SURR: MID” and “SURR: HIGH”.
- Select the surround volume level while listening to the actual sound to confirm the difference.



SURR: NRML

NOTE

- This function does not affect the sound with the headphone surround mode.

Using the sleep timer

When the time you specify elapses, the main unit automatically turns off.

Press [SLEEP].

- Each time you press [SLEEP], the time indicated in the display window changes. You can set the time to 10, 20, 30, 60, 90, 120, 150 or 180 minutes.

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



Changing the remaining time

Press [SLEEP] repeatedly to select the time again.

Confirming the remaining time

Press [SLEEP] once.

Canceling the sleep timer

Press [SLEEP] repeatedly until "SLEEP --" appears.

Turning off the main unit cancels the sleep timer.

Changing the brightness of the display window

■ When the main unit is turned on

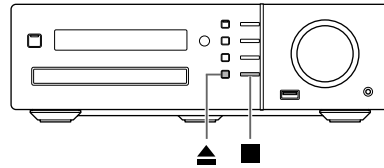
Press [DIMMER] repeatedly.

- Each time you press [DIMMER], the brightness changes in 3 levels.

Locking disc ejection

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

Setting the disc ejection lock



■ When the main unit is turned off

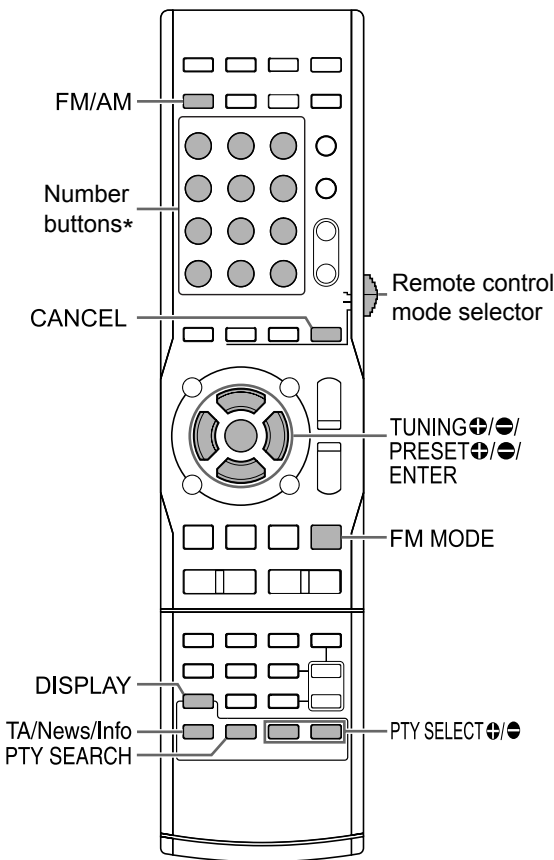
Hold down ▲ on the main unit for one or more seconds while holding down ■ on the main unit.



If you attempt to open the disc tray by pressing ▲, the disc tray does not open and "LOCKED" appears in the display window.

To cancel the disc ejection lock, press ▲ on the main unit while holding down ■ on the main unit again. "UNLOCKED" is displayed in the display window.

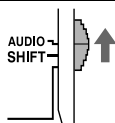
Listening to radio broadcasts



* For the number button usage, refer to “Using the number buttons” on page 13.

■ IMPORTANT

- Slide the remote control mode selector to [AUDIO].

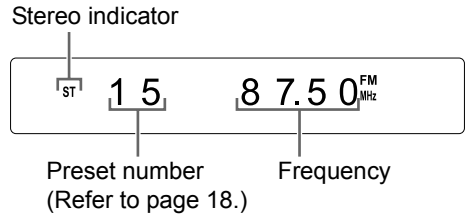


Selecting a radio station

1 Press [FM/AM] to select “FM” or “AM” in the display window.

- Pressing [FM/AM] selects a radio broadcast as the sound source.
- Repeatedly pressing [SOURCE] on the main unit can also select a radio broadcast as the source.
- Each time you press [FM/AM], the band toggles between “FM” and “AM”.

Example: When an FM radio broadcast is received



2 Press [TUNING +] or [TUNING -] repeatedly to select a radio station (frequency).

- When the main unit has received an FM stereo broadcast, the “ST” (stereo) indicator lights up in the display window.

■ Automatic tuning:

You can also select a radio station using automatic tuning.

Hold down [TUNING +] or [TUNING -] until the frequency starts changing, and then release the button.

- When the main unit has received a broadcast, the frequency automatically stops changing.
- You can select a specific radio station while searching for a broadcast. Press [TUNING +] or [TUNING -] to stop automatic tuning when the desired frequency appears in the display window.

NOTE

- 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, the “MONO” (monaural) indicator lights up in the display window. To return the sound to stereo reception, press [FM MODE] again. “AUTO” is displayed and the “ST” (stereo) indicator lights up in the display window.

Tuning in to a preset radio station

Presetting radio stations in the main unit 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.

- Refer to “Selecting a radio station” on page 17.

2 Press [ENTER].

- “--” flashes in the display window for approximately 5 seconds.

3 While “--” is flashing, press the number buttons to select the preset number you want to assign.

- You can also select the preset number by pressing [PRESET \oplus] or [PRESET \ominus].

4 Press [ENTER] while the selected number is flashing.

- “STORED” appears and the selected radio station is 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

- When an FM or AM radio broadcast is selected as the source

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

- You can also select the preset number by pressing [PRESET \oplus] or [PRESET \ominus].

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 sends 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:

Refer to page 21.

NOTE

- The main unit may not receive a Radio Data System signal from a radio station 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 main unit 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 while listening to an FM radio broadcast.

■ When listening to an FM radio broadcast

Press [DISPLAY] repeatedly.

PS (Program Service):

While the main unit is searching for Radio Data System information, "WAIT PS" appears and then the radio station name is displayed in the display window. "NO PS" appears if no signal is received.

PTY (Program Type):

While the main unit is searching for Radio Data System information, "WAIT PTY" appears and then the type of the broadcasted program is displayed in the display window. "NO PTY" appears if no signal is received.

RT (Radio Text):

While the main unit is searching for Radio Data System information, "WAIT RT" appears and then text messages sent by the radio station are displayed in the display window. "NO RT" appears if no signal is received.

NOTE

- If the main unit takes time to show the Radio Data System information received from a radio station, "PS", "PTY" or "RT" may appear in the display window.
- When PS, PTY or RT signals appear in the display window, special characters and symbols 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 source

1 Press [PTY SEARCH].

Display on the main unit



2 Press [PTY SELECT] or [PTY SELECT] repeatedly to select a PTY code while "PTY SELECT" is flashing in the display window.

Example: When "DOCUMENT" is selected as a PTY code



- Refer to page 20 for the PTY codes.

3 Press [PTY SEARCH].

- While the main unit is searching for a radio program, "SEARCH" and the selected PTY codes are displayed in the display window.

Example: When "DOCUMENT" is selected as a PTY code



- The main unit searches 30 preset FM radio stations, and stops when the main unit finds the one you have selected. At this time the selected frequency and PTY code flash. To search for the next radio station, press [PTY SEARCH] while the selected frequency and PTY code are flashing. After the frequency and PTY code stop flashing or if a button is pressed, the main unit automatically tunes in to the radio station.
- To stop searching, press [PTY SEARCH] or [CANCEL].
- If no program is found, "NONE" appears in the display window and the main unit 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 national or 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 devices or the main unit.
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 main unit 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.

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

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

Example: Display on the main unit



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. Changing the source or turning off the main unit also cancels the Enhanced Other Networks function.
- The Enhanced Other Networks data sent from some radio stations may not be compatible with this main unit.
- 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] as the tuner operation buttons. If you press any other button, "LOCKED" appears in the display window.
- 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 main unit continues tuning in to the current radio station.



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



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

CASE 2

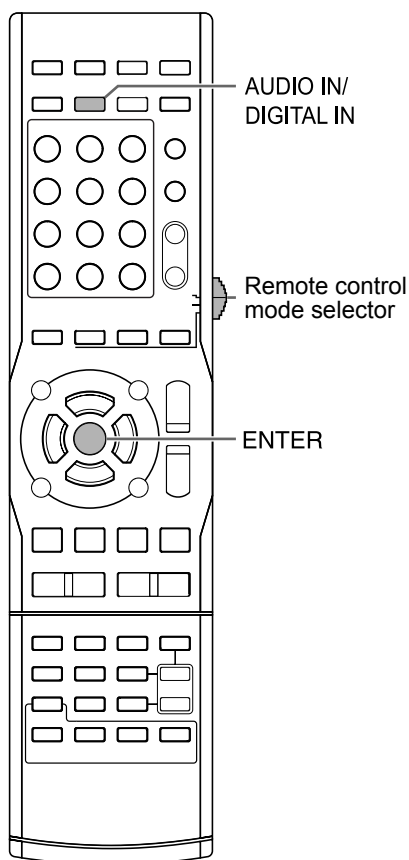
If there is a radio station broadcasting the program you have selected:

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



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

Playing back sources from external devices



Playing back sources from external devices

1 Press [AUDIO IN/DIGITAL IN].

- Each time you press [AUDIO IN/DIGITAL IN], the display changes to “AUDIO IN” or “DGTL IN” in the display window.
- “AUDIO IN” is for selecting the device connected to the [AUDIO IN] terminals.
- “DGTL IN” is for selecting the device connected to the [DIGITAL IN] terminal.
- You can also select the connected device as the source by repeatedly pressing [SOURCE] on the main unit.

2 Start playback on the connected device.

3 Adjust the volume or the sound quality for your preference.

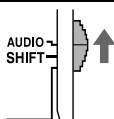
- Refer to page 13.

NOTE

- Refer also to the operation manual for the connected device.
- You can also operate your set-top box and video cassette recorder using the remote control of this system. Refer to pages 53 and 54.

■ IMPORTANT

- Slide the remote control mode selector to [AUDIO].



Selecting the signal gain

You can select the gain of the signal from the [AUDIO IN] terminals. Use the initial settings for normal operation. If the sound is too small or too loud, change the settings.

1 Press [AUDIO IN/DIGITAL IN] repeatedly to select “AUDIO IN” in the display window.

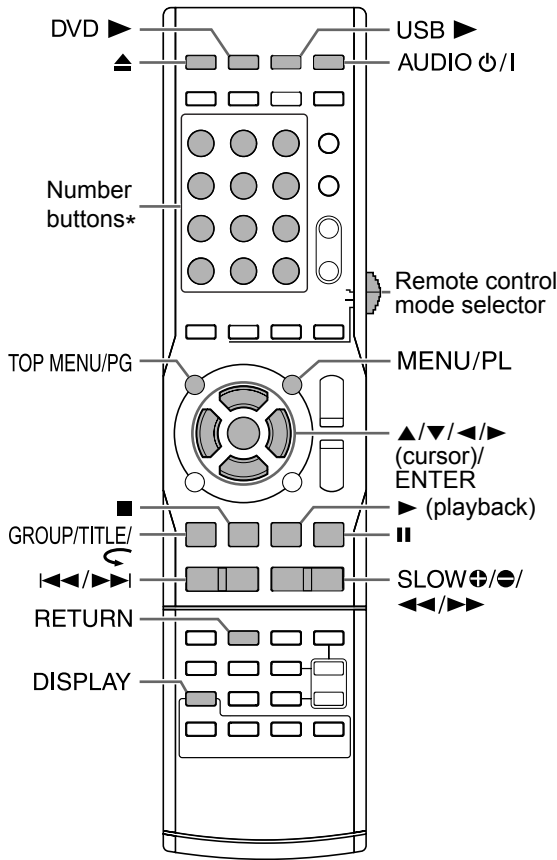
2 Hold down [ENTER].

- “LEVEL 1” or “LEVEL 2” appears in the display window.

3 Press [ENTER] repeatedly to select “LEVEL 1” or “LEVEL 2”.

- Each time you press [ENTER], the display toggles between “LEVEL 1” and “LEVEL 2”.
- The signal gain in “LEVEL 1” is lower than that in “LEVEL 2”.
- The display returns to “AUDIO IN” in approximately 5 seconds.

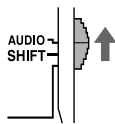
Basic operations of disc/file playback



* For the number button usage, refer to “Using the number buttons” on page 13.

■ IMPORTANT

- Slide the remote control mode selector to [AUDIO].

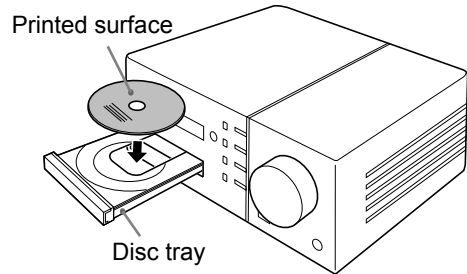


Playing back a disc



This part explains how to play back the types of discs shown above.

- 1 Press **▲** on the remote control or on the main unit.
 - The disc tray ejects.
- 2 Place a disc on the disc tray.



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

- 3 Press [DVD ▶].

- If “DVD” is selected as the source, pressing ▶ (playback) can start playback.

NOTE

- Instead of using the remote control in step 3, you can use the buttons on the main unit. Repeatedly pressing [SOURCE] can select “DVD” as the source, and pressing ▶ (playback) starts playback.
- A menu screen may appear on the TV screen after DVD playback starts. In such a case, operate the menu screen, using ▲, ▼, ◀, ▶ (cursor), the number buttons and [ENTER]. (Refer to “Selecting a chapter/track from the menu screen” on page 32.)

Playing back a file

MP3 WMA WAV JPEG ASF DivX MPEG1 MPEG2

This part explains how to play back 1) files recorded on the loaded disc, and 2) files recorded on a USB mass storage class device (hereinafter referred to as “USB device”) connected to the main unit. The operations are explained with a display of MP3 files as an example.

NOTE

- Also refer to “Notes on files recorded on a connected USB device” on page 60.
- When files of different types (audio/still picture/video) are recorded on a loaded disc or connected USB device, select the file type before playback. (Refer to “FILE TYPE” on page 43.)

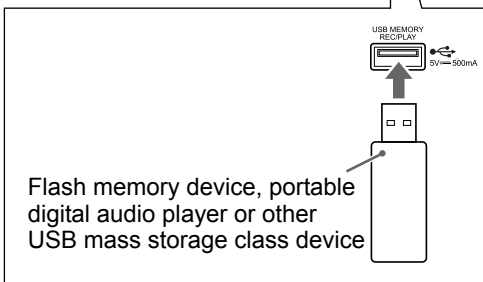
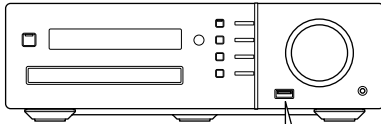
1

(To play back files on a disc)

Place a disc on the disc tray.

- Refer to steps 1 and 2 on page 23.
- (To play back files on a USB device)

Connect the USB device.



NOTE

- You cannot connect a computer to the [USB MEMORY REC/PLAY] terminal of the system.
- When connecting with a USB cable, use a USB 2.0 cable with a length of less than 1 m.

2

(To play back files on a disc)

Press [DVD ▶].

(To play back files on a USB device)

Press [USB ▶].

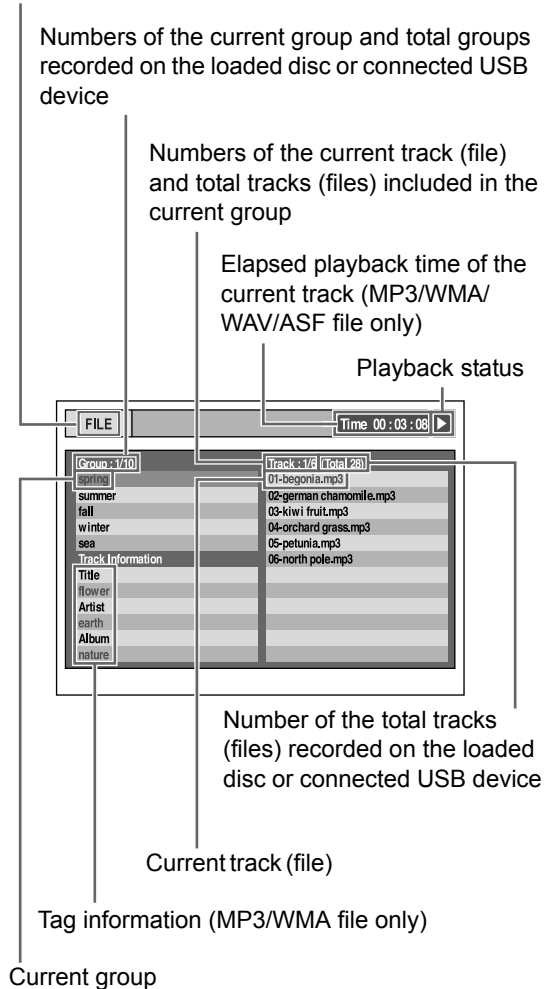
NOTE

- When a file on a USB device is played back, the “USB” indicator lights up in the display window.
- You can also use the buttons on the main unit. When you repeatedly press [SOURCE] to select “DVD” or “USB” in the display window, playback automatically starts. If playback does not start, press ▶ (playback) on the main unit.

3 Press ■ to stop playback.

- The menu screen appears on the TV screen.

When a file recorded on the connected USB device is selected as the source, “USB” is displayed.



NOTE

- Depending on the file type, the menu screen appears without pressing ■. At this time, you can skip step 3.

(Continued on the next page)

4 Press ▲, ▼, ◀ or ▶ (cursor) to select a group and track.

NOTE

- You can also use the number buttons and ◀◀ or ▶▶ to select a track.
- You can also select a group by another method. (1) Slide the remote control mode selector to [SHIFT], (2) press [GROUP/TITLE], and then (3) use the number buttons to enter the desired group number while “_ _” is displayed in the display window.

5 Press [DVD ▶], [USB ▶] or ▶ (playback).

NOTE

- If you have skipped step 3, you do not have to proceed to step 5.

Slide-show playback

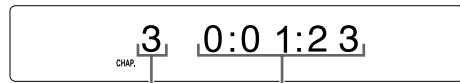
- JPEG files are continuously played back beginning with the selected file.
- Display time for a file in slide-show playback is approximately 3 seconds.
- Press [ENTER] to view only the selected file.

Display window on the main unit for disc/file types



DVD VIDEO

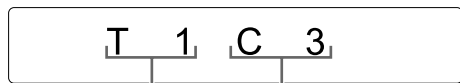
■ When a disc is played back



Chapter number Elapsed playback time



[DISPLAY] is pressed.



Title number Chapter number

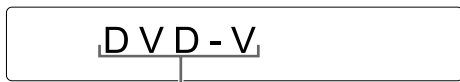
■ When a disc is stopped



Total number of titles



[DISPLAY] is pressed.

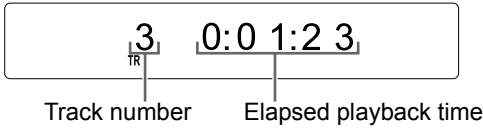


Disc type

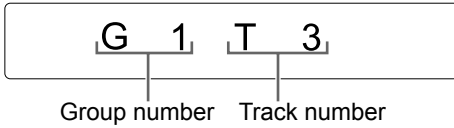
- When “RESUME” is displayed in the display window, refer to page 30.

DVD AUDIO

■ When a disc is played back

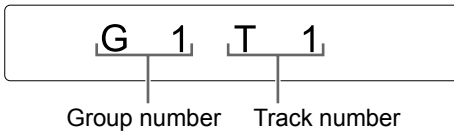


↕ [DISPLAY] is pressed.

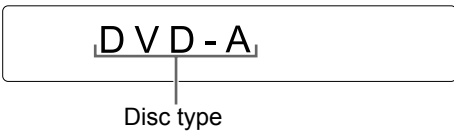


- If the "BONUS" or "B.S.P." indicator lights up during DVD AUDIO playback, refer to pages 38 or 40.

■ When a disc is stopped



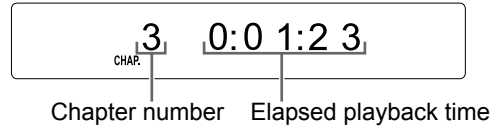
↕ [DISPLAY] is pressed.



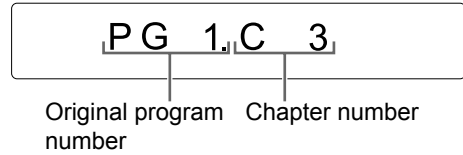
- When "RESUME" is displayed in the display window, refer to page 30.

DVD VR

■ When a disc is played back

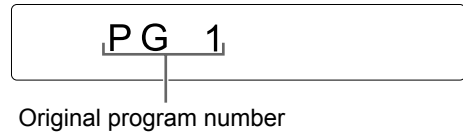


↕ [DISPLAY] is pressed.



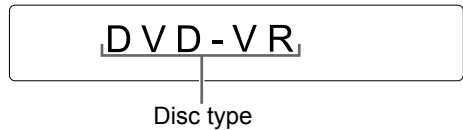
- When a play list is played back, "PL" is displayed instead of "PG".

■ When a disc is stopped



- When a play list is played back, "PL" is displayed instead of "PG".

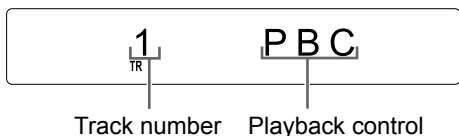
↕ [DISPLAY] is pressed.



- When "RESUME" is displayed in the display window, refer to page 30.

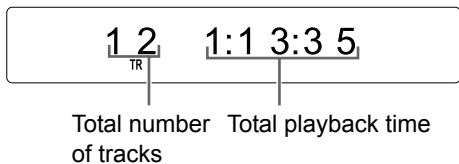
VCD/SVCD

■ When a disc is played back



- You can use the menu screen to control playback of a PBC compatible disc.
- To cancel the PBC function, follow the instructions below.
 - Specify the track number using the number buttons when the disc is stopped.
 - Specify the track number using ◀◀ or ▶▶ when the disc is stopped, and then press [DVD ▶] or ▶ (playback).
- When the PBC function is canceled, the “PBC” display disappears and the elapsed playback time appears.
- To restore the PBC function, press [TOP MENU/PG] or [MENU/PL], or open the disc tray once.
- Press [RETURN] to return to the upper layer during PBC playback.

■ When a disc is stopped

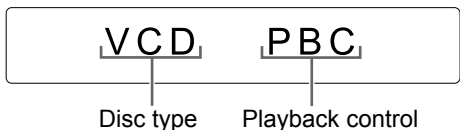


↓ A few seconds later

(When the PBC function is activated)



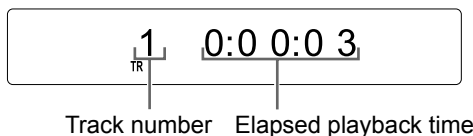
↕ [DISPLAY] is pressed.



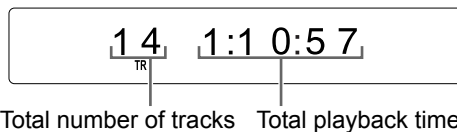
- When “RESUME” is displayed in the display window, refer to page 30.
- When a VCD is stopped, “VCD” is displayed as shown above.
- When an SVCD is stopped, “SVCD” is displayed as the disc type.

CD

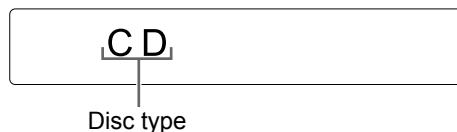
■ When a disc is played back



■ When a disc is stopped

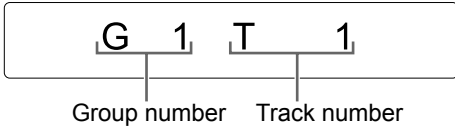
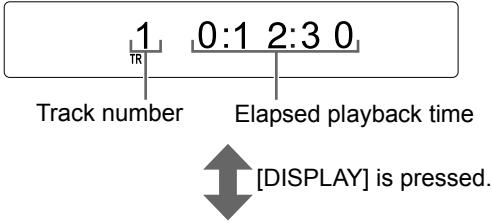


↕ [DISPLAY] is pressed.

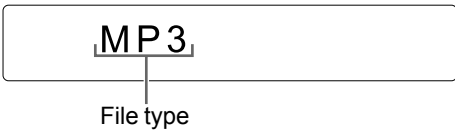
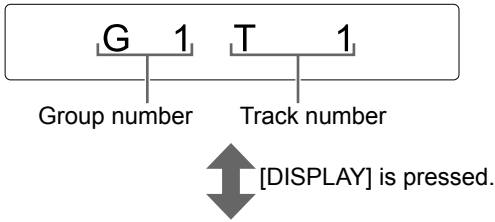


MP3/WMA/WAV/ASF/DivX/MPEG1/MPEG2 file

When a file is played back



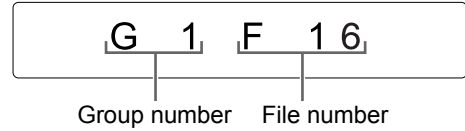
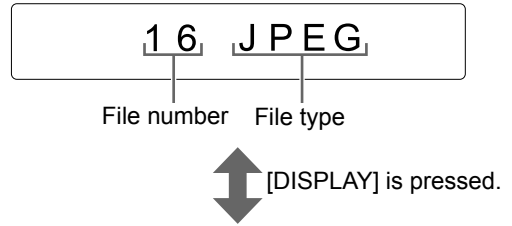
When a file is stopped



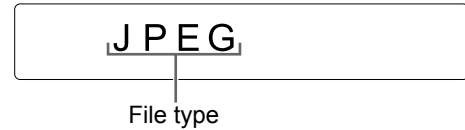
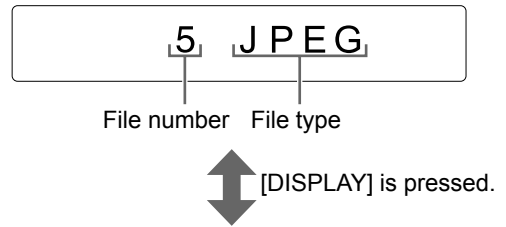
- When "RESUME" is displayed in the display window, refer to page 30.
- The display differs according to the file type. When a file is stopped, "MP3", "WMA", "WAV", "ASF", "DIVX" or "MPEG" appears. (The "MPEG" display refers to an MPEG1 or MPEG2 file.)

JPEG file

When a file is played back



When a file is stopped



Messages on the TV screen

When a DVD VIDEO or a USB device is selected as the source, the messages shown below are displayed on the TV screen to indicate the status of the DVD VIDEO or USB device.

NOW READING:

Appears when the main unit is reading the disc/file information. Wait for a short time.

REGION CODE ERROR!:

Appears when the region code of the disc does not match the code supported by the main unit. (Refer to page 58.)

NO DISC:

Appears when no disc is loaded.

NO USB DEVICE:

Appears when a USB device is not connected.

OPEN:

Appears when the disc tray is opening.

CLOSE:

Appears when the disc tray is closing.









CANNOT PLAY THIS DISC:

Appears when attempting to play back an unplayable disc.

CANNOT PLAY THIS DEVICE:

Appears when there are no playable files on a USB device.





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

	: Play
	: Pause
	: Fast reverse/fast forward search
	: Slow motion playback (reverse/forward directions)
	: Containing multi-view angles (Refer to page 40.)
	: Containing multi-audio languages (Refer to page 36.)
	: Containing multi-subtitle languages (Refer to page 36.)
	: The disc/file cannot accept the operation you have attempted.

Indicators in the display window

The indicators corresponding to the status below light up in the display window.


Digital signal format indicators

	Lights up when Dolby Digital signal comes in.
	Lights up when DTS Digital (Surround) signal comes in.
	Lights up when DVD AUDIO packed PCM signal comes in.
	Lights up when linear PCM signal comes in.










NOTE

- Any digital signal indicators do not light up when an analog signal comes in.

Dolby Surround mode indicator

	Lights up when Dolby Pro Logic II mode is activated.
---	--

Source signal and other indicators

	Lights up when the left channel signal comes in.
	Lights up when the center channel signal comes in.
	Lights up when the right channel signal comes in.
	Lights up when the LFE channel signal comes in.
	Lights up when the left surround channel signal comes in.
	Lights up when the monaural surround channel signal or 2-channel Dolby Surround signal comes in.
	Lights up when the right surround channel signal comes in.
	Lights up when the left/right speakers and the subwoofer are in use. (Disappears when headphones are connected to the [PHONES] terminal.)
	

Stopping playback



■ When a disc/file is played back

Press **■**.

Resuming playback



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

Temporarily stopping playback

■ When a disc/file is played back

Follow any of the operations below.

Press ■ once to stop playback.*1 *2
Select a source other than “DVD” or “USB” in the display window.*2
Press [AUDIO ϕ /I] to turn off the main unit.*3

*1 “RESUME” is displayed in the display window.

If **■** is pressed twice, the position where playback has been stopped is cleared.

*2 After this operation, the position where playback has been stopped is stored even when the main unit is turned off by pressing [AUDIO ϕ /I].

*3 When you press [AUDIO ϕ /I] to turn on the main unit again, the position where playback has been stopped is cleared.

Starting playback from the stored position

■ When a disc/file is stopped in the middle

Press [DVD \blacktriangleright] or [USB \blacktriangleright].

NOTE

- This function does not work in program playback or random playback.
- The stored position is cleared if the disc tray is opened or the USB device is disconnected.
- You can deactivate the resume playback function. (Refer to “RESUME” on page 44.)
- When a file on the USB device is selected as the source, this function may not work as explained above.

Pausing playback



■ When a disc/file is played back

Press **II**.

- To return to normal playback, press [DVD \blacktriangleright], [USB \blacktriangleright] or \blacktriangleright (playback).

Advancing the picture frame by frame



DVD AUDIO (only for moving images)

■ When a disc/file is paused

Press **II** repeatedly.

- To return to normal playback, press [DVD \blacktriangleright], [USB \blacktriangleright] or \blacktriangleright (playback).

Fast reverse/fast forward search



There are two methods.

■ When a disc/file is played back

• Press **◀◀** or **▶▶**.

Each time you press **▶▶**, the speed increases. To restore the normal speed, press [DVD \blacktriangleright], [USB \blacktriangleright] or \blacktriangleright (playback).

• Hold down **◀◀** or **▶▶**.

NOTE

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

Playing back from a position 10 seconds before



■ When a disc is played back

Press **↶**.

NOTE

- You cannot go back to the previous title and original program (play list).

Slow motion playback



DVD AUDIO (only for moving images)

■ When a disc is paused

Press **[SLOW]** or **[SLOW +]**.

- Each time you press **[SLOW]** or **[SLOW +]**, the speed increases.
- Press **[PAUSE]** to pause playback, and press **[DVD ▶]** or **[▶]** (playback) to return to normal playback.

NOTE

- No sound is 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



■ When a disc/file is played back

Press **[SKIP]** or **[SKIP]** repeatedly.

NOTE

- You cannot skip to the previous track even by pressing **[SKIP]** during random playback. (Refer to page 35.)
- You can also select a title or group. (1) Slide the remote control mode selector to **[SHIFT]**, (2) press **[GROUP/TITLE]**, and then (3) use the number buttons to enter the desired title or group number while “__” is displayed in the display window. At this time, for a DVD VR, the “PG” or “PL” indicator lights up in the display window.

Selecting a chapter/track using the number buttons



VCD SVCD (PBC off)

■ When a disc/file is played back

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

NOTE

- To cancel the PBC function for VCD/SVCD, refer to page 27.

Skipping at approximately 5 minute intervals



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

■ When a disc/file is played back

Press **[LEFT]** or **[RIGHT]** (cursor).

- Each time you press **[LEFT]** or **[RIGHT]** (cursor), the playback position skips to the beginning of the previous or next interval. Each interval is approximately 5 minutes.

NOTE

- Intervals are automatically assigned from the beginning of a file.
- You can use this function only within the same file.

Selecting a chapter/track from the menu screen



■ When a disc is stopped or played back

1 Press [TOP MENU/PG] or [MENU/PL].

- The menu screen is displayed.
- Pressing [TOP MENU/PG] may not work depending on the disc type. In this case, press [MENU/PL].

2 Press ▲, ▼, ◀ or ▶ (cursor) to select the selection menu for chapters or tracks.

3 Press [ENTER].

4 Press ▲, ▼, ◀ or ▶ to select the desired chapter or track.

5 Press [ENTER].

NOTE

- You can use this function only when a menu screen is recorded on the disc.
- Depending on a disc, you may proceed to step 4 when you finish step 1.
- Playback may start for some discs without pressing [ENTER] in step 5.



■ When a disc is played back with the PBC function activated

1 Press [RETURN] once or more.

2 Press the number buttons to select the desired track.

NOTE

- For a VCD/SVCD whose menu screen has a couple of pages, you can change the page by pressing |◀◀ or ▶▶| in step 2.



■ When a disc is stopped or played back

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

Original program

ORIGINAL PROGRAM				
No	Date	Ch	Time	Title
1	09/12/07	L 1	12:15	La fleur
2	09/12/07	L 1	23:05	The last struggle
3	18/12/07	L 1	08:17	free flyer
4	20/12/07	L 1	07:47	BOOM!
5	25/12/07	L 1	19:38	Mr. Lawrence
6	28/12/07	L 1	14:20	Satisfy U

Title name
Starting time for the title recording
Channel information
Recording date

Play list

PLAY LIST				
No	Date	Chap	Length	Title
1	03/12/07	2	0:23:24	Nebula G.
2	15/12/07	4	1:04:39	CDJ
3	24/12/07	13	0:41:26	Secret Garden
4	27/12/07	17	0:09:08	S. Walker

Total playback time for the title
Number of chapters included in the title
Recording date

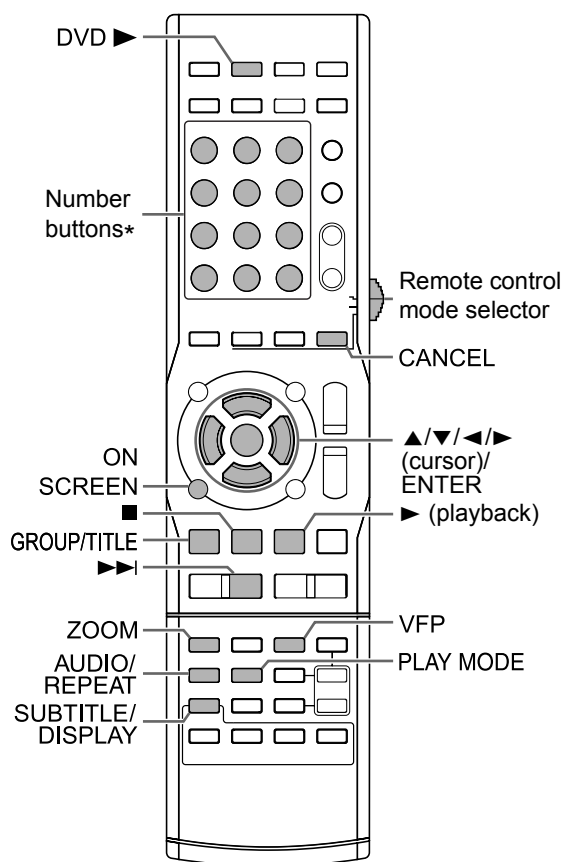
- The play list does not appear when a play list has not been recorded to the disc.

2 Press ▲ or ▼ (cursor) to select the desired title.

3 Press [ENTER].

- When you have selected the original program by pressing [TOP MENU/PG] in step 1, playback starts from the selected title.
- When you have selected the play list by pressing [MENU/PL] in step 1, only the selected title is played back.

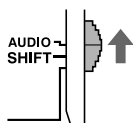
Convenient functions of disc/file playback



* For the number button usage, refer to “Using the number buttons” on page 13.

■ IMPORTANT

- Some buttons change their functions according to the remote control mode.
- Before using the functions described in “Convenient functions of disc/file playback” (other than [AUDIO], [SUBTITLE], [ZOOM], [VFP] or [GROUP/TITLE]), slide the remote control mode selector to [AUDIO].



Playing back a disc/file in the desired order (Program playback)



(only on a loaded disc)

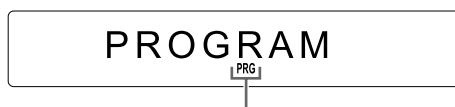
You can program a maximum of 99 chapters or tracks. The same chapter or track can be programmed more than once.

■ When a disc/file is stopped

1 Press [PLAY MODE] to display “PROGRAM” in the display window.

- If you accidentally pressed [PLAY MODE] twice or more, press [PLAY MODE] repeatedly until “PROGRAM” is displayed.

Display window



This indicator lights up when the program playback function is activated.

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

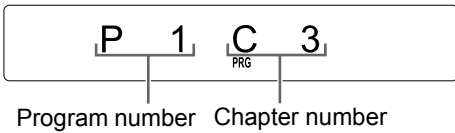
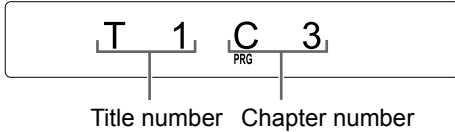
PROGRAM		
No	Group/Title	Track/Chapter
1		
2		
3		
4		
5		
6		
7		
8		

2 Press the number buttons to program tracks/chapters.

- You can refer to the program number in the display window by pressing [DISPLAY].

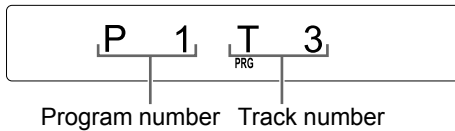
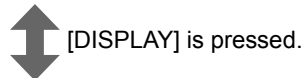
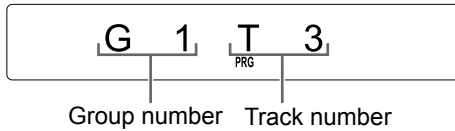
Display for a DVD VIDEO

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



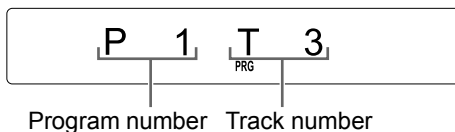
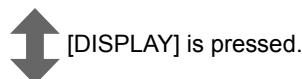
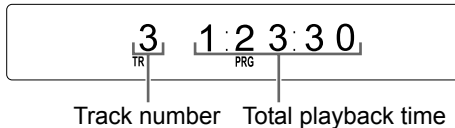
Display for a DVD AUDIO/MP3/WMA/WAV file

- Select a group number and then a track number.



Display for a VCD/SVCD/CD

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



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

PROGRAM		
No.	Group/Title	Track/Chapter
1	1	3
2		
3		
4		
5		
6		
7		
8		

- Before selecting a bonus group of a DVD AUDIO, cancel the “BONUS” indicator as explained in “Playing back the bonus group” on page 38.

NOTE

- Instead of using the number buttons, when you press [ENTER] in the “Track/Chapter” column on the TV screen, “ALL” appears and all the chapters/tracks in the selected title/group are programmed. (Only for a DVD VIDEO/DVD AUDIO/MP3/WMA/WAV file)
- You can erase the programmed tracks one by one from the bottom of the list on the program screen by pressing [CANCEL] repeatedly.
- You can erase the whole program by holding down [CANCEL].
- Opening the disc tray also erases the program.

3 Press [DVD ►] or ►(playback).

Confirming the program

- When a disc/file is played back

Press ■.

- Playback stops and the program screen appears on the TV screen.

Canceling program playback

- When a disc/file is stopped

Press [PLAY MODE] repeatedly to display an item other than “PROGRAM” in the display window.

- This operation does not erase the program.

Playing back a disc/file in a random order (Random playback)



(only on a loaded disc)

■ When a disc/file is stopped

1 Press [PLAY MODE] repeatedly to display “RANDOM” in the display window.



This indicator lights up when the random playback function is activated.

2 Press [DVD ►] or ►(playback).

NOTE

- Each chapter or track is played back only once.

Canceling random playback

■ When a disc/file is stopped

Press [PLAY MODE] repeatedly to display an item other than “RANDOM” in the display window.

- Opening the disc tray also cancels random playback.

Playing back a disc/file repeatedly (Repeat playback)



■ When a disc/file is played back

Press [REPEAT].

- Each time you press [REPEAT], the repeat mode changes.

Indicator in the display window	Display on the TV screen*1	Usage for the repeat mode
C	📁TITLE	Repeats the current title.
	📁PG	Repeats the current original program.
	📁PL	Repeats the current play list.
	📁GROUP	Repeats the current group.
C 1	📁CHAP*2	Repeats the current chapter.
	📁TRACK*2	Repeats the current track.
C ALL	📁ALL	Repeats all chapters/tracks.*3
—	📁OFF*4	Cancels repeat.

*1 For some discs/files, “REPEAT” may appear instead of “📁”

*2 “STEP” is displayed during program/random playback.

*3 Repeats the whole program during program playback.

*4 For some discs/files, no display may appear.

NOTE

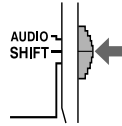
- You can also use the menu bar to set repeat playback. (Refer to page 40.)
- You can also specify a part to be played back repeatedly by using A-B repeat playback. (Refer to page 41.)
- The repeat mode is automatically canceled if there is a file that cannot be played back.
- For some discs, stopping playback may automatically cancel repeat playback.
- To cancel the PBC function for VCD/SVCD, refer to page 27.

Selecting the audio language and subtitle language

■ When a disc/file is played back

■ IMPORTANT

- Slide the remote control mode selector to [SHIFT].

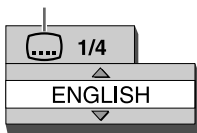


1 Press the desired button shown below.

Function	Button	Available disc/file
Audio language	[AUDIO]	
Subtitle language	[SUBTITLE]	 <p>(only for moving images)</p>

Example: TV screen for the subtitle language

- : Audio language
- : Subtitle language



2 Press ▲ or ▼ (cursor) to select the desired language.

NOTE

- It is recommended that you slide the remote control mode selector to [AUDIO] after using these functions. Most of the other functions can be used when the remote control mode selector is at [AUDIO].
- Pressing [AUDIO] repeatedly also changes the audio languages.
- Pressing [SUBTITLE] repeatedly turns the subtitle display on and off.
- You can only select these function settings when the disc/file contains multiple audio languages or subtitle languages.
- When a language code such as "AA" and "AB" is displayed, refer to "Language codes" on page 45.
- You can also use the menu bar to set the functions. Refer to page 40.
- When a DVD VR, VCD or SVCD is played back, "ST" (stereo), "L" (left) and "R" (right) are displayed on the TV screen.

Magnifying the picture

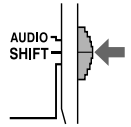


(only for moving images)

■ When a disc/file is played back or paused

■ IMPORTANT

- Slide the remote control mode selector to [SHIFT].



1 Press [ZOOM].

- Each time you press [ZOOM], the picture magnification changes on the TV screen.

2 Select the area of image you want to magnify by using ▲, ▼, ◀ or ▶ (cursor).

- To return to normal playback, select "ZOOM OFF" in step 1.

NOTE

- It is recommended that you slide the remote control mode selector to [AUDIO] after using this function. Most of the other functions can be used when the remote control mode selector is at [AUDIO].
- You cannot change the picture magnification during slide-show playback of JPEG files.
- During ASF file playback, ▲, ▼, ◀ or ▶ (cursor) may not work in step 2.
- When you magnify a picture, image quality may be deteriorated or the image may be distorted.

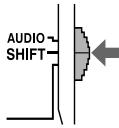
Adjusting the picture quality (VFP)



■ When a disc/file is played back or paused

■ IMPORTANT

- Slide the remote control mode selector to [SHIFT].

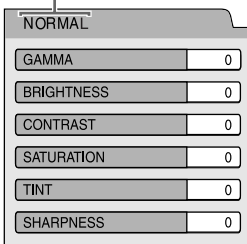


1 Press [VFP].

- The current settings are displayed.

Example: TV screen for the VFP mode

Selected VFP mode



2 Press ◀ or ▶ (cursor) to select the video fine processor (VFP) mode.

- Each time you press ◀ or ▶ (cursor), VFP mode changes on the TV screen as follows.
 - "NORMAL"
For normal playback. (You cannot adjust the image quality.) Go to step 7.
 - "CINEMA"
Suitable for viewing a movie in a dim room. (You cannot adjust the image quality.) Go to step 7.
 - "USER1/USER2"
You can adjust the image quality. Go to step 3.

3 Press ▲ or ▼ (cursor) to select the item you want to adjust.

- Each time you press ▲ or ▼ (cursor), the item changes on the TV screen as follows.
 - "GAMMA"
Controls the brightness of neutral tints while maintaining the brightness of dark and light portions. (Setting range: -3 to +3)
 - "BRIGHTNESS"
Controls the brightness of the display. (Setting range: -8 to +8)
 - "CONTRAST"
Controls the contrast of the display. (Setting range: -7 to +7)
 - "SATURATION"
Controls the saturation of the display. (Setting range: -7 to +7)
 - "TINT"
Controls the tint of the display. (Setting range: -7 to +7)
 - "SHARPNESS"
Controls the sharpness of the display. (Setting range: -8 to +8)

4 Press [ENTER].

Example: TV screen for "GAMMA"



5 Press ▲ or ▼ (cursor) to change the value.

6 Press [ENTER].

- To adjust other items, go back to step 3.

7 Press [VFP].

NOTE

- It is recommended that you slide the remote control mode selector to [AUDIO] after using this function. Most of the other functions can be used when the remote control mode selector is at [AUDIO].
- If no operation is made for several seconds during the procedure, the settings made so far are automatically stored.
- When the [HDMI MONITOR OUT] terminal is connected, this function does not affect the picture quality.

Playing back the bonus group

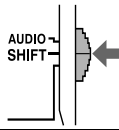


Some DVD AUDIOS may have a special group, called “bonus group”. You can use this function when the “BONUS” indicator lights up in the display window.

■ When a disc is played back

■ IMPORTANT

- Slide the remote control mode selector to [SHIFT].



1 Press [GROUP/TITLE].

2 Press ►►| repeatedly to select a bonus group.

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

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

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

4 Press [ENTER].

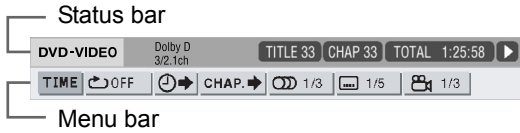
- When the correct pin code is entered, the “BONUS” indicator disappears in the display window and the playback of the bonus group starts.
- If an incorrect pin code is entered, try entering the correct pin code again.

Using the status bar and the menu bar

■ When a disc/file is played back

1 Press [ON SCREEN] twice.

Example: TV screen for a DVD VIDEO



2 Press ◀ or ▶ (cursor) to select an item you want to operate.

3 Press [ENTER].

4 Press ▲ or ▼ (cursor) to select your desired setting.

NOTE

- To turn off the status bar and the menu bar, press [ON SCREEN].

Information displayed on the status bar

DVD VIDEO/DVD AUDIO/DVD VR

Example: Status bar for a DVD VIDEO

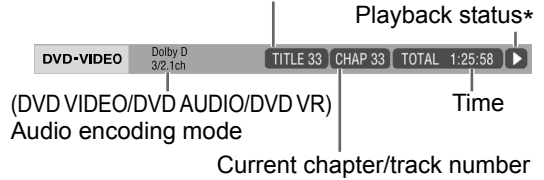
(DVD VIDEO/DVD AUDIO)

Current title/group number

(DVD VR)

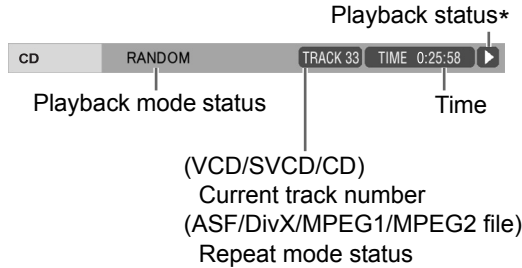
Current original program number (PG)/

current play list number (PL)



VCD/SVCD/CD/ASF/DivX/MPEG1/MPEG2 file

Example: Status bar for a CD









NOTE

- * The playback status has the same meaning of the guide icons on the TV screen. (Refer to page 29.)

Function list

<p>TIME</p>	<p>Changes the time information in the display window and the status bar. Instead of steps 3 and 4 on page 39, press [ENTER] repeatedly. Each time [ENTER] is pressed, the display changes on the status bar.</p> <p>DVD VIDEO DVD AUDIO</p> <p>■ When a disc is played back</p> <p>TOTAL : Elapsed playback time of the current title/group.</p> <p>T.REM : Remaining time of the current title/group.</p> <p>TIME : Elapsed playback time of the current chapter/track.</p> <p>REM : Remaining time of the current chapter/track.</p> <p>DVD VR</p> <p>■ When a disc is played back</p> <p>TOTAL : Elapsed playback time of the current original program/play list.</p> <p>T.REM : Remaining time of the current original program/play list.</p> <p>VCD SVCD CD</p> <p>■ When a disc is played back</p> <p>TIME : Elapsed playback time of the current track.</p> <p>REM : Remaining time of the current track.</p> <p>TOTAL : Elapsed playback time of the disc.</p> <p>T.REM : Remaining time of the disc.</p>
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<p> OFF</p> <p>Repeat mode</p>	<p>Refer to page 35. (For A-B repeat playback, refer to page 41.)</p>
<p></p> <p>Time search</p>	<p>Refer to page 41.</p>
<p></p> <p>Chapter search/ track search</p>	<p>DVD VIDEO DVD VR (chapter search) DVD AUDIO (track search)</p> <p>Selects a chapter/track. Instead of steps 4 on page 39, press the number buttons to enter the chapter/track number and press [ENTER].</p> <p>Examples: 5 : [5] 24 : [2] → [4]</p>
<p> 1/3</p> <p>Audio language</p>	<p>Refer to page 36.</p>
<p> 1/5</p> <p>Subtitle language</p>	<p>Refer to page 36.</p>
<p> 1/3</p> <p>View angle</p>	<p>DVD VIDEO DVD AUDIO</p> <p>(only for moving images)</p> <p>■ When a disc is played back Selects a view angle if the disc contains multiple view angles.</p>
<p>PAGE -/-</p> <p>Page selection</p>	<p>DVD AUDIO</p> <p>■ When a disc is played back Selects browsable still pictures (B.S.P.) if the DVD AUDIO contains ones and the "B.S.P." indicator lights up in the display window. The pictures can be viewed as if you are turning pages. For some pictures, you may have to press [ENTER] or wait for a short time after step 4 on page 39.</p>

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 a desired part repeatedly by specifying a start point (A) and an end point (B).

■ When a disc is played back

1 Press [ON SCREEN] twice.

- The menu bar appears. (Refer to page 39.)

2 Press ◀ or ▶ (cursor) to select

OFF.

3 Press [ENTER].

4 Press ▲ or ▼ (cursor) to select "A-B".



5 Press [ENTER] at the start point of the part to be repeated (specifying point A).

- The icon on the menu bar is A-.

6 Press [ENTER] at the end point of the part to be repeated (specifying point B).

- The icon on the menu bar is A-B.
- The "↶" and "A-B" indicators light up in the display window and the part between points A and B is played back repeatedly.

Canceling A-B repeat playback

There are two methods.

- Press .
- Select OFF. (Select A-B and press [ENTER] twice.)

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 or random playback.
- To cancel the PBC function for VCD/SVCD, refer to page 27.
- For some discs, stopping playback may automatically cancel A-B repeat playback.

Designating the time (Time search)

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

■ When a disc is played back

1 Press [ON SCREEN] twice.

- The menu bar appears. (Refer to page 39.)

2 Press ◀ or ▶ (cursor) to select

.

3 Press [ENTER].



4 Enter the time using the number buttons.

Example:

When you want to play back a DVD VIDEO from the position of (0 hour) 23 minutes 45 seconds, press the number buttons in the order of [0], [2], [3], [4] and [5].

- You can skip entering the minute and second settings.
- If an incorrect value is entered, press ◀ (cursor) to delete the value and enter the correct value.

5 Press [ENTER].

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

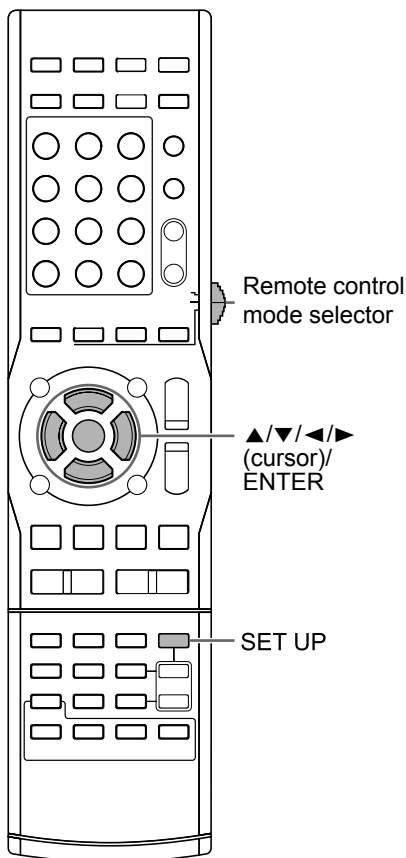
NOTE

- This function does not work during program playback or random playback.
- 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 played back, time search is within the track currently being played back.
- To cancel the PBC function for VCD/SVCD, refer to page 27.

Changing the initial settings with the preference screen

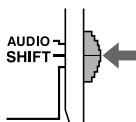


You can use the preference screen to change the initial settings of the main unit according to the environment where the main unit is used.



■ IMPORTANT

- Slide the remote control mode selector to [SHIFT].



NOTE

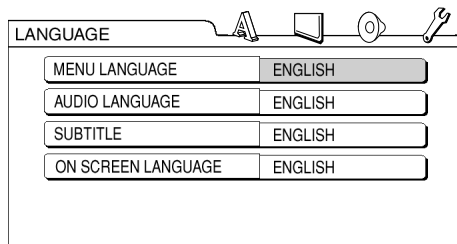
- The top and bottom of the preference screen may not be displayed on a widescreen TV. Adjust the picture size on the TV.

Basic operations

- When a disc/file is stopped or no disc is loaded ("NO DISC" is displayed in the display window)

1 Press [SET UP].

- The preference screen appears on the TV screen.



2 Use ▲, ▼, ◀, ▶ (cursor) and [ENTER] to operate the preference screen.

- Follow the description on the TV screen to operate the preference screen.

NOTE

- It is recommended that you slide the remote control mode selector to [AUDIO] after using this function. Most of the other functions can be used when the remote control mode selector is at [AUDIO].





A LANGUAGE

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

NOTE

- If the selected language is not recorded on the disc/file, the optimum language set for the disc/file is displayed.
- For a language code such as "AA", refer to the "Language codes" on page 45.

PICTURE

Items	Contents (<input type="checkbox"/> : initial setting)
MONITOR TYPE	<p>Select the display method suitable for your TV.</p> <p>4 : 3 PS (Pan Scan) : For a TV with conventional 4:3 aspect ratio. When a widescreen picture is input, the left and right edges of the picture are not shown on the screen. (If the disc/file is not compatible with Pan Scan, the picture is displayed at the Letterbox ratio.)</p>  <p>4 : 3 LB (Letterbox) : For a TV with conventional 4:3 aspect ratio. When a widescreen picture is input, black bars appear on the top and bottom of the screen.</p>  <p>16 : 9 NORMAL : For a widescreen TV whose aspect ratio is fixed at 16:9. When a conventional screen picture whose aspect ratio is 4:3 is input, black bars appear on the left and right sides of the screen.</p> <p>16:9 AUTO : For a widescreen TV which automatically detects the aspect ratio of the input screen picture.</p> <p>When a conventional screen picture is input</p>  <p>When a widescreen picture is input</p> 

Items	Contents (<input type="checkbox"/> : initial setting)
PICTURE SOURCE	<p>Select the item suitable to the video source.</p> <p>AUTO : The video source type (a video or film) is automatically selected.</p> <p>FILM : To view a film or video recorded with the progressive scan method</p> <p>VIDEO : Suitable for playing back a video</p>
SCREEN SAVER	<p>You can turn ON or OFF the screen saver. The screen saver activates when there is no operation made for approximately 5 minutes since a still picture was last displayed.</p>
FILE TYPE	<p>When files of different types are recorded on a loaded disc or connected USB device, select the file type before playback.</p> <p>AUDIO : For MP3/WMA/WAV files</p> <p>STILL PICTURE : For JPEG files</p> <p>VIDEO : For ASF/DivX/MPEG1/MPEG2 files</p>
HDMI DVI COLOR	<p>You can select the settings for the picture appearance (image quality, color intensity and black fading) on the TV connected to the [HDMI MONITOR OUT] terminal.</p> <p>STANDARD : For normal usage</p> <p>ENHANCE : The main unit automatically adjusts the picture appearance.</p>
HDMI OUT	<p>You can select the video signal type output from the [HDMI MONITOR OUT] terminal.</p> <p>AUTO : For normal usage. The main unit automatically selects the output video signal type according to the TV connected to the [HDMI MONITOR OUT] terminal.</p> <p>RGB : Select this item if no picture appears on the TV with the "AUTO" setting. The output video signal type is set to the RGB signal.</p>



AUDIO

Items	Contents (<input type="checkbox"/> : initial setting)
DIGITAL AUDIO OUTPUT	<p>Select the output signal type suitable to the device connected to the [DIGITAL OUT] terminal. Refer to "List of relationships of DIGITAL AUDIO OUTPUT preference items and output signals" on page 45.</p> <p>PCM ONLY : Device corresponding only to linear PCM</p> <p>DOLBY DIGITAL/PCM : Dolby Digital decoder or device having the same function</p> <p>STREAM/PCM : DTS/Dolby Digital decoder or device having the same function</p> <p>NOTE</p> <ul style="list-style-type: none"> When the [HDMI MONITOR OUT] terminal is connected and "HDMI AUDIO OUT" is set to "ON", this setting is deactivated.
DOWN MIX	<p>Select the signal suitable to the device connected to the [DIGITAL OUT] terminal. Set "DOWN MIX" only when "DIGITAL AUDIO OUTPUT" is set to "PCM ONLY".</p> <p>DOLBY SURROUND : Dolby Pro Logic decoder-built-in device</p> <p>STEREO : Ordinary audio device</p>
D (Dynamic) RANGE COMPRESSION	<p>To correct the difference between high volume and low volume when playing back with low volume (only for a DVD recorded with Dolby Digital).</p> <p>AUTO : The D. RANGE COMPRESSION function automatically turns on.</p> <p>ON : The D. RANGE COMPRESSION function is always on.</p>
HDMI AUDIO OUT	<p>You can select whether or not the audio signal from the [HDMI MONITOR OUT] terminal is output.</p> <p>ON : The audio signal from the [HDMI MONITOR OUT] is output.</p> <p>OFF : The audio signal from the [HDMI MONITOR OUT] is not output.</p> <p>NOTE</p> <ul style="list-style-type: none"> Depending on the connected TV, when "HDMI AUDIO OUT" is set to "ON", only PCM signals can be output via an HDMI cable.



OTHERS

Items	Contents (<input type="checkbox"/> : initial setting)
RESUME	Select ON or OFF . (Refer to page 30.)
ON SCREEN GUIDE	Select ON or OFF . (Refer to page 29.)
CEC	<p>You can select the usage for the HDMI CEC functions. (Refer to page 55.)</p> <p>ON 1 : For using the HDMI CEC functions normally</p> <p>ON 2: Select this item if you do not want to have the main unit automatically turned on/off by turning on/off the TV or external connected HDMI CEC compatible devices. All other available HDMI CEC functions operate the same as when "ON 1" is selected.</p> <p>OFF: For deactivating the HDMI CEC functions</p>
DivX REGISTRATION	The main unit has its own registration code. You can confirm the registration code, when necessary. Once you have played back a disc/file on which the registration code is recorded, the registration code of the main unit is overwritten for copyright protection.

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

Playback disc/file	DIGITAL AUDIO OUTPUT preference		
	STREAM/PCM	DOLBY DIGITAL/PCM	PCM ONLY
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	DTS bit stream	48 kHz, 16-bit stereo linear PCM	
DOLBY DIGITAL DVD VIDEO/DVD AUDIO	DOLBY DIGITAL bit stream		48 kHz, 16-bit stereo linear PCM
CD/VCD/SVCD	44.1 kHz, 16-bit stereo linear PCM 48 kHz, 16-bit linear PCM		
DTS CD	DTS bit stream	44.1 kHz, 16-bit linear PCM	
MP3/WMA/WAV/DivX/MPEG1/MPEG2 file	32/44.1/48 kHz, 16-bit linear PCM		

NOTE

- Among DVD VIDEOS without copyright protection, there may be some DVD VIDEOS that output a 20- or 24-bit signal through the [DIGITAL OUT] terminal.

Language codes

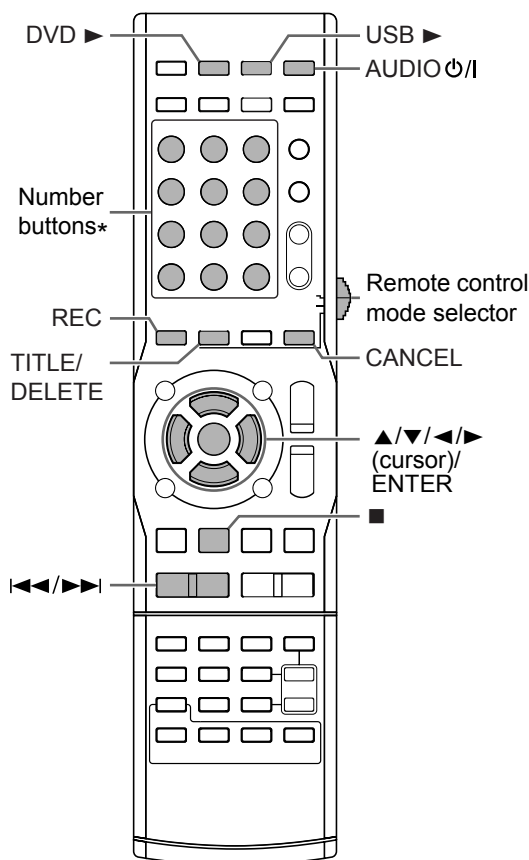
Code	Language	Code	Language	Code	Language	Code	Language
AA	Afar	GD	Scots Gaelic	MI	Maori	SN	Shona
AB	Abkhazian	GL	Galician	MK	Macedonian	SO	Somali
AF	Afrikaans	GN	Guarani	ML	Malayalam	SQ	Albanian
AM	Ameharic	GU	Gujarati	MN	Mongolian	SR	Serbian
AR	Arabic	HA	Hausa	MO	Moldavian	SS	Siswati
AS	Assamese	HI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

Ripping sound directly from a CD to a USB device

You can record sound from a CD to a USB device. This function is generally called “ripping” or “digital audio extraction”.

CAUTION

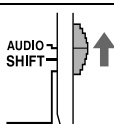
- It should be noted that it may be unlawful to re-record pre-recorded tapes, records, or discs without the consent of the owner of copyright in the sound or video recording, broadcast or cable program and in any literary, dramatic musical, or artistic work embodied therein.
- Only a CD formatted with Compact Disc Digital Audio (CD-DA) standard is compatible with this function. You cannot record sound from CDs with other formats, other types of discs, or other sources.
- A track from a CD is digitally recorded and converted into an MP3 file.
- This system uses a constant recording speed of x1. Sound is recorded at bit rate of 128 kbps. You cannot increase the recording speed.



* For the number button usage, refer to “Using the number buttons” on page 13.

IMPORTANT

- Slide the remote control mode selector to [AUDIO].



Recording all tracks from a CD to a USB device

1 Place a CD on the disc tray and connect the USB device.

- Refer to pages 23 and 24.

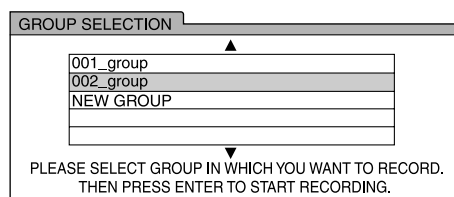
2 Press [DVD ▶].

3 Press ■ to stop playback.

4 Press [REC].

- The title and number of the group appear on the TV screen. (It may take some time until the title and number of the group appear.)

TV screen



USE ▲▼ TO SELECT GROUP.
TO EXIT, PRESS ■.

5 Press ▲ or ▼ repeatedly to select the desired group on the connected USB device.

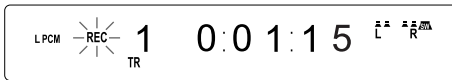
- You can create a new group by selecting “NEW GROUP” on the TV screen.
- After this step, you can add (edit) a title to the selected group. Follow step 4 to 8 in “Adding (Editing) a title to a track/group on a USB device” on page 49.
- To cancel the settings, press ■.

(Continued on the next page)

6 Press [ENTER] to start recording.

- The “REC” indicator starts flashing in the display window.

Display window



- When recording finishes, the “REC” indicator turns off.

NOTE

- When you want to quit recording, press ■. When you press ■ after [ENTER] is pressed in step 6, sound having been recorded before ■ is pressed is stored. After pressing ■, if you want to disconnect the USB device, wait until the “REC” indicator stops flashing and disappears.
- Do not operate the main unit when “PLEASE WAIT...” is displayed on the TV screen or “WAIT” is displayed in the display window. Wait until the display disappears.
- If “NO USB” appears in the display window, check the USB device or its connection.
- “CANT REC” appears in the display window if recording cannot continue for some reason.
 - The USB device may be connected improperly. Check the connection.
 - You may be trying to record write protected tracks.
 - You may be trying to record sound from a CD-R or CD-RW. The Serial Copy Management System (SCMS) protects copyright and allows only first-generation digital copies from the digitally recordable source. In short, you cannot make “a copy of a copy”.
 - You may be trying to record more than the limited number of recordable tracks. You can record up to 999 tracks to a group and 4 000 tracks to a USB device.
 - The number of tracks that can be recorded to the root group may be limited on the USB device. The number of tracks may have exceeded the limitation. In this case, select another group or create a new group.
- Changes to the volume and quality of the sound during recording do not affect the recorded sound or the recorded sound level.
- The following functions do not affect the recorded sound: the treble/bass adjustment function (page 13), K2 function (page 14 [only for NX-F7]), speaker volume level function (page 14), surround mode function (page 14), headphone surround function (page 15) and clear voice function (page 15).
- When “RANDOM” is selected, operating this function automatically cancels random playback.

CAUTION

- Do not bump or move the main unit while recording sound. Such movement may interfere with recording.
- Do not disconnect the USB device during recording, as this may cause malfunction.

Recording only one track

Instead of step 3 on page 46, start playback of the desired track.

- You can use the number buttons, ◀◀ or ▶▶ to select a track.
- Finishing step 6 returns playback to the beginning of the current track and only that track is recorded.

NOTE

- You can also record only the desired track by pausing the track instead of step 3 on page 46.
- When “RANDOM” is selected, operating this function automatically cancels random playback.

Recording programmed tracks

Before proceeding to step 4 on page 46, program the desired tracks.

- Refer to steps 1 and 2 on pages 33 and 34 for programming tracks.
- The following procedure is the same as steps 4 to 6 on page 46 and this page.

Deleting a track/group from a USB device

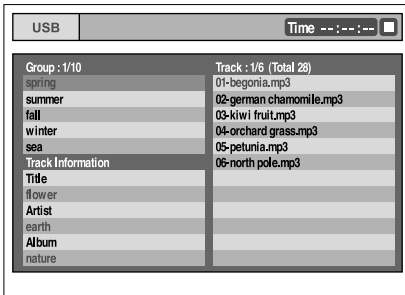
1 Connect the USB device.

- Refer to page 24.

2 Press [USB ►].

3 Press ■ to stop playback.

TV screen



4 Press ▲, ▼, ◀ or ▶ repeatedly to select the desired track/group.

5 Press [TITLE/DELETE] repeatedly to select “T. DELETE” or “G. DELETE” in the display window.

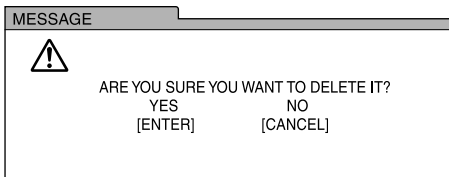
Display window



- Select “T. DELETE” to delete a track.
- Select “G. DELETE” to delete a group.

6 Press [ENTER].

TV screen



- To cancel deleting the track/group, press [CANCEL].

7 Press [ENTER].

NOTE

- When “WAIT” is displayed in the display window, you cannot start deletion. Wait until the main unit reads signals from the USB device.
- You can also refer to messages on the TV screen when you delete a title to a track/group from the connected USB device. The messages indicate the operational status and provide instructions.
- Do not press [AUDIO ◂/▸] while the main unit is deleting a track or group. If [AUDIO ◂/▸] is pressed, the main unit automatically turns off after the track or group is deleted.
- It may take a long time to delete a group containing many tracks.

CAUTION

- Do not bump or move the main unit while deleting a track/group. Such movement may interfere with deleting.
- Do not disconnect the USB device during deleting, as this may cause malfunction.

Adding (Editing) a title to a track/group on a USB device

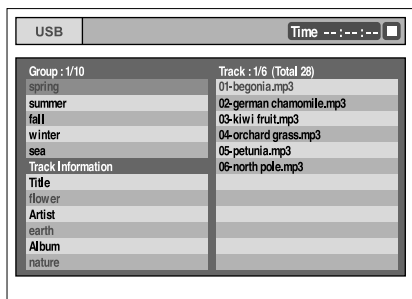
1 Connect the USB device.

- Refer to page 24.

2 Press [USB ►].

3 Press ■ to stop playback.

TV screen



4 Press ▲, ▼, ◀ or ▶ repeatedly to select the desired track/group.

5 Press [TITLE/DELETE] repeatedly to select “T. TITLE” or “G. TITLE” in the display window.

Display window

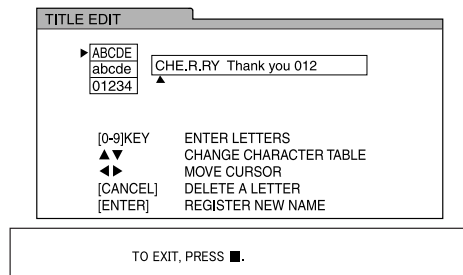


- Select “T. TITLE” to add a title to a track.
- Select “G. TITLE” to add a title to a group.

6 Press [ENTER].

- The title of the selected track/group appears in the display window.
- If the track/group does not have a title, “NO NAME” appears instead.
- Press [CANCEL] to erase a stored title.

TV screen



7 Enter a title.

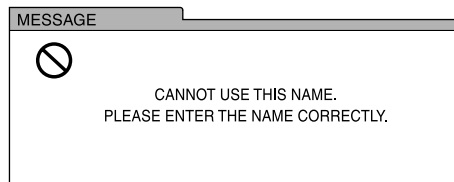
- Refer to “Entering a title” on page 50.
- To cancel editing a title, press ■.

8 Press [ENTER].

NOTE

- When “WAIT” is displayed in the display window, you cannot start editing.
- If “NO USB” appears in the display window, check the USB device or its connection.
- You can also refer to messages on the TV screen when you add or edit a title to a track/group on the connected USB device. The messages indicate the operational status and provide instructions.
- Do not press [AUDIO ◊/!] while the main unit is editing a title. If [AUDIO ◊/!] is pressed, the main unit automatically turns off after the title is edited.
- If you press [ENTER] without first entering a title, “EDIT ERR” appears in the display window and the following display appears on the TV screen. At this time, press [ENTER] again to enter a title.

TV screen



CAUTION

- Do not bump or move the main unit while editing a title. Such movement may interfere with editing.
- Do not disconnect the USB device during editing, as this may cause malfunction.

Entering a title

The operation is explained with the time when to enter “F” as an example.

1 Press ▲ or ▼ (cursor) repeatedly to select the character type setting.

- Each time you press ▲ or ▼ (cursor), the selected character type setting changes to “ABCDE”, “abcde” or “01234” on the TV screen.
- “ABCDE” refers to uppercase characters or symbols.
- “abcde” refers to lowercase characters or symbols.
- “01234” refers to numerical characters.

2 Press the number button [3] repeatedly until “F” appears.

- Several characters are assigned to one button. Press the button repeatedly until the desired character is displayed. In this example, “D”, “E” and “F” are assigned to [3].
- For the available characters, refer to “Available characters” shown on the right.

NOTE

- When you want to move the character entry position, press ◀ or ▶ (cursor) repeatedly.
- When you want to enter “NO”, “TV”, or other two or more characters which are assigned to one button (in this case, [6] or [8]), enter the first character, press ▶ (cursor) to move the character entry position to the right, and then enter the second character.
- You can enter up to 24 characters for the file title and up to 28 characters for the folder title.
- When you want to erase a character, move the character entry position to the desired character, and press [CANCEL].
- When you want to enter a space, select the space from the symbol (Refer to “Available characters” shown on the right). You can also enter a space at the end of a title by pressing ▶ (cursor).
- When you want to cancel title entry, press ■. The entered characters are not stored.
- If you enter a title that already exists, “THIS NAME ALREADY EXISTS. PLEASE USE A DIFFERENT NAME.” appears on the TV screen. Enter a different title.

Available characters

You can use the characters shown below by repeatedly pressing the number buttons ([1] to [9] and [0]). Each number button is assigned with several characters.

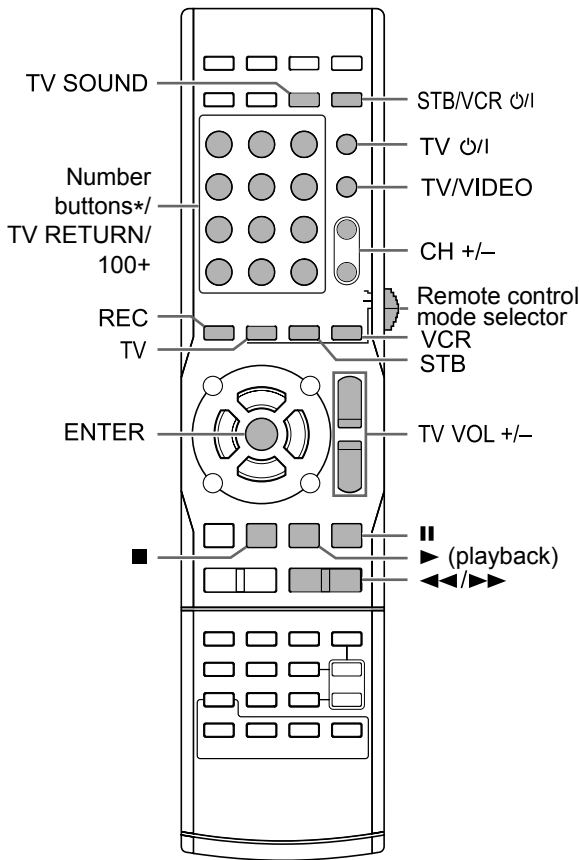
Remote control button	Uppercase character ▶ABCDE abcde 01234	Lowercase character ABCDE ▶abcde 01234	Numerical character ABCDE abcde ▶01234
[1]	Symbol*		1
[2]	◀A→B→C	◀a→b→c	2
[3]	◀D→E→F	◀d→e→f	3
[4]	◀G→H→I	◀g→h→i	4
[5]	◀J→K→L	◀j→k→l	5
[6]	◀M→N→O	◀m→n→o	6
[7]	◀P→Q→R→S	◀p→q→r→s	7
[8]	◀T→U→V	◀t→u→v	8
[9]	◀W→X→Y→Z	◀w→x→y→z	9
[0]	-	-	0

*Available symbols

You can use the symbols show below by repeatedly pressing [1].

→ Space → ! → # → \$ → % → & → ' →
_ ← @ ← = ← . ← - ← + ←) ← (

Convenient functions of TV viewing



* For the number button usage, refer to “Using the number buttons” on page 13.

Listening to sound from a TV

This function enables you to listen to the sound from a TV.

To use this function, the main unit has to be connected to a TV with a SCART cable. Also, be sure that the setting for using a SCART cable has been selected. (Refer to pages 8 and 12.)

1 Press [TV SOUND].

- “TV SOUND” appears in the display window. The TV connected to the main unit is selected as the sound source.
- Repeatedly pressing [SOURCE] on the main unit can also select sound from the TV as the source.

2 Turn on the TV.

3 Adjust the volume or the sound quality for your preference.

- Refer to page 13.

NOTE

- The desired sound may not be produced depending on the connected TV.
- Refer also to the operation manual for the connected TV.

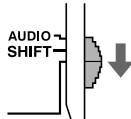
You can operate your TV, set-top box (STB) and video cassette recorder (VCR) using the remote control of this system.

Operating a TV using the remote control

Setting the manufacturer code

■ IMPORTANT

- Slide the remote control mode selector to the lowest position.



- 1 Press [TV].**
- 2 Hold down [TV \odot /I].**
 - Hold down [TV \odot /I] until you finish step 5.
- 3 Press [ENTER] and release.**
- 4 Press number buttons to enter the manufacturer code.**

Examples:

For a Hitachi TV: Press [0], then [7].

For a Toshiba TV: Press [2], then [9].

When the manufacturer of your TV has 2 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, 27, 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, 27, 28
Grundig	06	Samsung	10, 19, 32, 35, 36, 37, 38
Hitachi	07, 08	Sanyo	05
Inno-Hit	09	SEG	15
Irradio	02, 05	Schneider	02, 05
Loewe	10	Sharp	20, 39, 40
Magnavox	10	Sony	21, 22, 23, 24, 25
Mitsubishi	11, 33	Telefunken	13, 14, 18, 26, 27, 28
Miver	03	Thomson	13, 14, 18, 26, 27, 28, 30
Nokia	12, 34	Toshiba	29

The initial code setting is "01 (JVC)".

5 Release [TV \odot /I].

NOTE

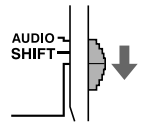
- It is recommended that you slide the remote control mode selector to [AUDIO] after using this function. Most of the other functions can be used when the remote control mode selector is at [AUDIO].
- Manufacturer codes are subject to change without notice. You may not be able to operate the TV produced by the manufacturer.
- After replacing the batteries of the remote control, set the manufacturer code again.

Using the remote control for the TV operation

Before the TV operation, select the remote control mode for the TV.

■ IMPORTANT

- Slide the remote control mode selector to the lowest position.



- 1 Press [TV].**
- 2 Operate the remote control by pointing it at the TV.**

Remote control button	Usage
[TV \odot /I]	Turns on/off the TV.
[TV/VIDEO]	Changes between the TV and video input.
[CH +/-]	Changes channels.
[TV VOL +/-]	Adjusts volume.
Number buttons (1-9, 0, 100+)	Selects the channels.
[TV RETURN]	Changes between the previously selected channel and the current channel.

NOTE

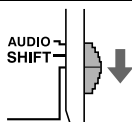
- When the remote control mode selector is slid to the lowest position and [TV] is pressed, some buttons may not work.
- It is recommended that you slide the remote control mode selector to [AUDIO] after using this function. Most of the other functions can be used when the remote control mode selector is at [AUDIO].

Operating an STB using the remote control

Setting the manufacturer code

■ IMPORTANT

- Slide the remote control mode selector to the lowest position.



- 1 Press [STB].**
- 2 Hold down [STB/VCR \odot /I].**
 - Hold down [STB/VCR \odot /I] until you finish step 5.
- 3 Press [ENTER] and release.**
- 4 Press number buttons to enter the manufacturer code.**

Examples:

For an Amstrad STB: Press [0], then [3].

For a Triax STB: Press [3], then [0].

When the manufacturer of your STB has 2 or more codes, select the manufacturer codes in turn and find the one that operates the STB and the remote control properly.

Manufacturer	Code	Manufacturer	Code
JVC	01, 02	Mascom	32
Amstrad	03, 04, 05, 06, 31	Maspro	13
BT	01	Nokia	24, 26, 33
Canal+	20	Pace	10, 25, 31
Canal Satellite	20	Panasonic	15
D-Box	24	Philips	09, 23
Echostar	17, 18, 19, 21	Saba	35
Finlux	11	Sagem	22, 29
Force	28	Salora	11
Galaxis	27	Selector	29
Grundig	07, 08	Skymaster	12, 36
Hirschmann	07, 17, 37	Thomson	35
ITT Nokia	11	TPS	22
Jerrold	16	Triax	30
Kathrein	13, 14, 34	Wisi	07
Luxor	11		

The initial code setting is "01 (JVC)".

5 Release [STB/VCR \odot /I].

NOTE

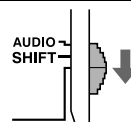
- It is recommended that you slide the remote control mode selector to [AUDIO] after using this function. Most of the other functions can be used when the remote control mode selector is at [AUDIO].
- Manufacturer codes are subject to change without notice. You may not be able to operate the STB produced by the manufacturer.
- After replacing the batteries of the remote control, set the manufacturer code again.

Using the remote control for the STB operation

Before the STB operation, select the remote control mode for the STB.

■ IMPORTANT

- Slide the remote control mode selector to the lowest position.



- 1 Press [STB].**
- 2 Operate the remote control by pointing it at the STB.**

Remote control button	Usage
[STB/VCR \odot /I]	Turns on/off the STB.
[CH +/-]	Changes channels.
Number buttons (1-9, 0, ≥ 10)	Selects the channels.

NOTE

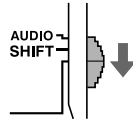
- When the remote control mode selector is slid to the lowest position and [STB] is pressed, some buttons may not work.
- It is recommended that you slide the remote control mode selector to [AUDIO] after using this function. Most of the other functions can be used when the remote control mode selector is at [AUDIO].

Operating a VCR using the remote control

Setting the manufacturer code

■ IMPORTANT

- Slide the remote control mode selector to the lowest position.



- Press [VCR].
- Hold down [STB/VCR ⏻/⏪].
 - Hold down [STB/VCR ⏻/⏪] until you finish step 5.
- Press [ENTER] and release.
- Press number buttons to enter the manufacturer code.

Examples:

For a Hitachi VCR: Press [0], then [8].

For a Toshiba VCR: Press [3], then [3].

When the manufacturer of your VCR has 2 or more codes, select the manufacturer codes in turn and find the one that operates the VCR and the remote control properly.

Manufacturer	Code	Manufacturer	Code
JVC	01	Nokia	16
Aiwa	02, 20	Nordmende	17, 18, 19, 31
Bell+Howell	03, 16	Orion	20
Blaupunkt	04	Panasonic	21
CGM	03, 05, 16	Philips	05, 22
Daewoo	34	Phonola	05
DIGITAL	05	Saba	17, 18, 19, 23, 31
Fisher	03, 16	Samsung	24, 25
G.E.	06	Sanyo	03, 16
Grundig	07	Sharp	26, 27
Hitachi	08, 09	Siemens	07
Loewe	05, 10, 11	Sony	28, 29, 30, 35
Magnavox	04, 05	Telefunken	17, 18, 19, 31, 32
Mitsubishi	12, 13, 14, 15	Toshiba	33

The initial code setting is "01 (JVC)".

5 Release [STB/VCR ⏻/⏪].

NOTE

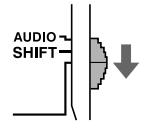
- It is recommended that you slide the remote control mode selector to [AUDIO] after using this function. Most of the other functions can be used when the remote control mode selector is at [AUDIO].
- Manufacturer codes are subject to change without notice. You may not be able to operate the VCR produced by the manufacturer.
- After replacing the batteries of the remote control, set the manufacturer code again.

Using the remote control for the VCR operation

Before the VCR operation, select the remote control mode for the VCR.

■ IMPORTANT

- Slide the remote control mode selector to the lowest position.



- Press [VCR].
- Operate the remote control by pointing it at the VCR.

Remote control button	Usage
[STB/VCR ⏻/⏪]	Turns on/off the VCR.
[CH +/-]	Changes channels.
Number buttons (1-10, 0, ≥10)	Selects the channels.
▶ (playback)	Starts playback.
■	Stops playback.
	Pauses playback.
▶▶	Fast-forwards the tape.
◀◀	Fast-rewinds the tape.
[REC] + ▶ (playback)	Starts recording.
[REC] +	Pauses recording.

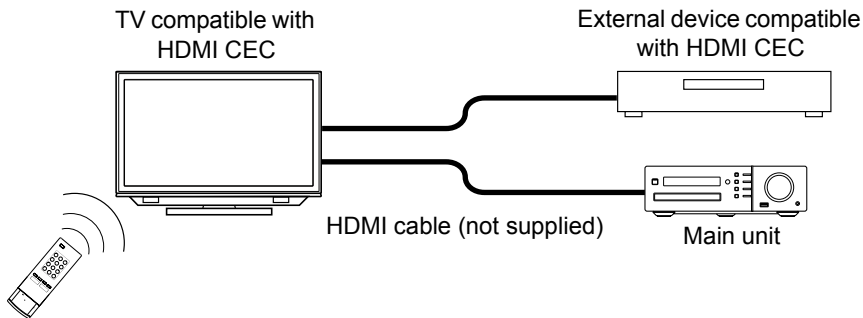
NOTE

- When the remote control mode selector is slid to the lowest position and [VCR] is pressed, some buttons may not work.
- It is recommended that you slide the remote control mode selector to [AUDIO] after using this function. Most of the other functions can be used when the remote control mode selector is at [AUDIO].

Basic operations of HDMI CEC

Consumer Electronics Control (CEC) is device controlling signals optionally employed for the High-Definition Multimedia Interface (HDMI) standard. When devices equipped with CEC are connected, each device can control the others.

This system is compatible with some basic functions of HDMI CEC.



- When you start playback on the main unit, the connected TV automatically turns on.
- When you select the main unit as the source of the TV, picture and sound from the main unit are automatically produced.
- When you turn off the TV, the main unit automatically turns off. (This function works when "ON 1" is selected for "CEC" in the preference screen. Refer to page 44.)
- When you select the menu screen language of the TV, and then the main unit is turned off and turned on again, the same language is automatically selected on the main unit. (The selectable languages are limited to those supported by this system.)
- As long as the connected TV is compatible, you can use the operations of the TV to start playback, adjust the volume and operate other functions on the main unit.

NOTE

- This function is available only when the source is set to "DVD" or "USB".
- This function is available when "ON 1" or "ON 2" is selected for "CEC" in the preference screen (refer to page 44).
- For details about the CEC function, refer to the operations manuals of the connected CEC devices.
- If the power cable is not connected to an AC outlet, the CEC function does not work, even when the main unit is connected to CEC devices.
- Not all HDMI devices are compatible with CEC. If the main unit is connected to non-CEC compatible devices, these devices cannot be controlled using the CEC function.
- The CEC function may not work with some CEC devices. (When the main unit is connected to a non-JVC product, the CEC function may not work.)
- The CEC function may not work depending on the settings or status of the main unit or the connected CEC devices.
- When connecting the main unit to a TV with an HDMI cable for the first time after purchase, confirm that "JVC" (the initial screen) appears.
- When you disconnect the HDMI cable and connect it again, confirm that "JVC" appears.
- If the CEC function does not work properly, select "OFF" for the "CEC" setting, and then select "ON 1" or "ON 2" again. (Refer to page 44.)

Suitable locations for the main unit

To minimize the need for servicing and maintain the high quality of this system, do not place the main unit in the following locations:

- In a position subject to high humidity or considerable dust
- On an uneven or unstable surface
- Near a heat source
- Near a computer, fluorescent light or other electric appliance
- In a small room with insufficient ventilation
- In a position exposed to direct sunlight
- In a position exposed to excessive cold
- In a position exposed to strong vibration
- Near a TV, other amplifier, or tuner
- Near a magnetic source

CAUTION

- The operating temperature of this system is 5°C to 35°C. Use in temperatures outside this range may cause a malfunction or damage the system.

Condensation

Under the following conditions, you may not be able to operate this system properly due to condensation formed on the lens of the main unit:

- When you have just started an air conditioner to warm your room
- When you have placed the main unit at an area with high humidity
- When you have moved the main unit from a cold place to a warm place

When condensation forms, leave the main unit turned on, wait for approximately 1 or 2 hours, and then operate the main unit.

Cleaning the main unit

When the operation panel becomes dirty, dust it with a soft dry cloth. When the operation panel is very dirty, wipe it with a cloth dampened with a small amount of a neutral detergent, and then wipe it with a soft dry cloth.

CAUTION

- Do not wipe the operation panel with thinners, benzenes or other chemical agents. Do not spray insecticides onto the operation panel. These may discolor and damage the surface.

Notes on handling

Important cautions

Installation of the system

- Select a place that is level, dry and neither too hot nor too cold, and 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 cable

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

To prevent malfunctions of the system

- There are no user-serviceable parts inside. If anything goes wrong, unplug the power cable and consult your dealer.
- Do not insert any metallic object into the system.

Note about copyright laws

Check the copyright laws in your country before recording from CDs. Recording of copyrighted material may infringe copyright laws.

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 heating equipment.

When you are away

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

Do not block the vents

Blocking the vents may damage the system.

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.

If water gets inside the system

Turn the system off and disconnect the power cable 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.

License and trademark

- This product incorporates copyright protection technology that is protected by U.S. patents and other intellectual property rights. Use of this copyright protection technology must be authorized by Macrovision, and is intended for home and other limited viewing uses only unless otherwise authorized by Macrovision. Reverse engineering or disassembly is prohibited.
- CONSUMERS SHOULD NOTE THAT NOT ALL HIGH DEFINITION TELEVISION SETS ARE FULLY COMPATIBLE WITH THIS PRODUCT AND MAY CAUSE ARTIFACTS TO BE DISPLAYED IN THE PICTURE. IN CASE OF 525 OR 625 PROGRESSIVE SCAN PICTURE PROBLEMS, IT IS RECOMMENDED THAT THE USER SWITCH THE CONNECTION TO THE "STANDARD DEFINITION" OUTPUT. IF THERE ARE QUESTIONS REGARDING OUR TV SET COMPATIBILITY WITH THIS MODEL 525p AND 625p DVD PLAYER, PLEASE CONTACT OUR CUSTOMER SERVICE CENTER.
- USE OF THIS PRODUCT IN ANY MANNER THAT COMPLIES WITH THE MPEG-4 VISUAL STANDARD IS PROHIBITED, EXCEPT FOR USE BY A CONSUMER ENGAGING IN PERSONAL AND NON-COMMERCIAL ACTIVITIES.
- DivX, DivX Ultra Certified, and associated logos are trademarks of DivX, Inc. and are used under license.
- Official DivX® Ultra Certified product
- Plays all versions of DivX® video (including DivX® 6) with enhanced playback of DivX® media files and the DivX® Media Format
- Microsoft and Windows Media are either registered trademarks or trademarks of Microsoft Corporation in the United States and/or other countries.
- DVD Logo is a trademark of DVD Format/Logo Licensing Corporation.
- Manufactured under license from Dolby Laboratories. "Dolby", "Pro Logic", "MLP Lossless", and the double-D symbol are trademarks of Dolby Laboratories.
- "DTS" and "DTS Digital Surround" are registered trademarks of DTS, Inc.
- HDMI, the HDMI logo and High-Definition Multimedia Interface are trademarks or registered trademarks of HDMI Licensing LLC.
- HDCP is the abbreviation of "High-bandwidth Digital Content Protection," and is the high-reliable copy control technology licensed by Digital Content Protection, LLC.

Playable disc/file types

Playable discs *1	DVD VIDEO, DVD AUDIO, DVD VR *3, VCD, SVCD, CD, CD-R *4, CD-RW *4, DVD-R *5, *6, DVD-RW *6, +R, +RW
Playable files recorded on a disc *1	MP3, WMA, WAV, JPEG, ASF, DivX, MPEG1, MPEG2
Playable files recorded on a USB device *2	

• Even though listed above, some types may be unplayable.

*1 Discs should be finalized before being played back.

*2 This system may not recognize some USB devices. This system cannot play back a file whose data volume is more than 2 gigabytes and a file whose data transfer rate is more than 2 Mbps.

*3 DVD VR means a DVD-R/DVD-RW recorded in Video Recording (VR) format.

*4 A CD-R/CD-RW recorded in multi-session format (up to 20 sessions) is playable.

*5 A DVD-R recorded in multi-border format is also playable (including dual layer discs).

*6 For files recorded on a DVD-R/DVD-RW, the disc should be formatted with UDF Bridge.

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.

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

Only sounds can be played back from the following discs:

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

This system is designed for use with the PAL standard but you can also play back discs recorded in NTSC format. When you play back a disc recorded in NTSC format on the main unit connected to the TV using a component video cable, the picture may be distorted. To prevent picture distortion, use a SCART cable. (Refer to page 8 for connecting a SCART cable.)

Region code of DVD VIDEO

DVD VIDEO players and DVD VIDEO discs have their own region code numbers. This system can play back a DVD VIDEO whose region code number includes the system's region code, which is indicated on the rear panel of the main unit.

Examples:



If a DVD VIDEO with an improper region code number is loaded, playback cannot start.

• **On some DVD VIDEOS, DVD AUDIOS, VCDs, SVCDs or DivX files, their actual operation may be different from what is explained in this manual. This is due to the disc/file programming and disc/file structure, not a malfunction of this system.**

Unplayable discs

- 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 generates noise and may damage the speakers.
- Damaged discs and discs with an unusual shape (other than a disc of 12 cm or 8 cm in diameter) cannot be played back.
- JVC does not guarantee the operation and sound quality of discs not authorized by CD-DA, which is a CD specification. Before playback, confirm that the disc complies with this CD specification by checking the marks and reading notes printed on the package.

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

- CDs recorded in the ISO 9660 format are playable (except CDs recorded in the "packet write" format (UDF format)).
- Files with an extension of ".mp3", ".wma", ".wav", ".jpg", ".jpeg", ".asf", ".divx", ".div", ".avi", ".mpg", ".mpeg" or ".mod" (extensions with mixed cases are also acceptable) are playable.

Notes on MP3/WMA/WAV/JPEG/ASF discs/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 characters other than single-byte alphanumeric characters are used in the file name of an MP3/WMA/WAV/JPEG/ASF file, the track/file name is not displayed correctly.
- The order of tracks/groups displayed on the MP3/WMA/WAV menu screen, and the order of files/groups displayed on the JPEG menu screen may be different from that of files/folders displayed on a computer monitor screen.
- Playing back an MP3/WMA file that contains a still image may take a long time. The elapsed time is not displayed until playback starts. This elapsed time may 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 is not compatible with an MP3i or MP3PRO file.
- 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 rotation function of a digital camera is applied, the data may no longer conform to the DCF standard, and the image may not be displayed).
- If data has been processed, edited or restored with computer image editing software, the data may not be displayed.
- This system cannot play back animations such as MOTION JPEG files, still pictures (TIFF etc.) other than JPEG files, 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, it may take a long time to display the file. 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.
- A WAV file with a sampling frequency of 44.1 kHz and a quantization bit rate of 16 bits is recommended.

Notes on DivX discs/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 streams should conform to MPEG1 Audio Layer-2, MPEG Audio Layer-3 (MP3) or Dolby Digital.
- 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 file 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/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, MPEG2 Audio Layer-2 or Dolby Digital (MPEG2 files only).

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 is not recommended.

Notes on files recorded on a connected USB device

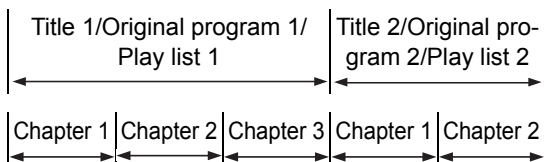
- This system is compatible with USB 2.0 Full-Speed.
- This system may not play back some USB devices and some files.
- This system does not support DRM (Digital Rights Management).
- This system cannot recognize a USB device whose rating exceeds 5V/500mA.
- When connecting a USB device, refer also to its manual.
- Connect the USB device directly to the main unit without routing through a USB hub.
- Disconnect the USB device after stopping playback or turning off this system.
- The main unit can charge a USB device when the USB device is selected as the source.
- Always set the volume to the minimum on this system when connecting or disconnecting a USB device.
- JVC bears no responsibility for any loss of data on the USB device while using this system.

Data hierarchy

DVD VIDEO/DVD VR

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

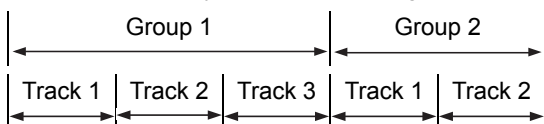
A DVD VR consists of “original programs” or “play lists” and each original program/play list may be divided into “chapters”.



DVD AUDIO

A DVD AUDIO consists of “groups” and each group may be divided into “tracks”.

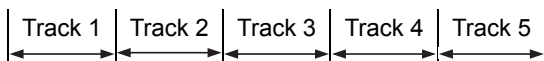
Some discs include a “bonus group” that requires a password for playback. (Refer to page 38.)



VCD/SVCD/CD

A VCD/SVCD/CD consists of “tracks”.

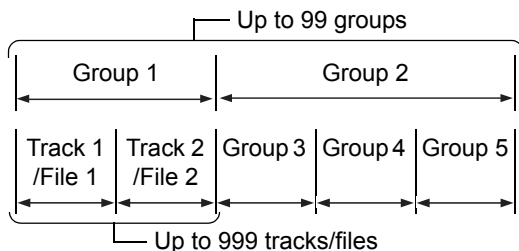
In general, each track has its own track number. (On some discs, each track may also be further divided by indexes.)



MP3/WMA/WAV/JPEG/ASF/DivX/MPEG1/MPEG2 files

Audio, still pictures and video are recorded as tracks/files on a disc or a USB device. Tracks/files are usually grouped into a folder. Folders can also include other folders, creating hierarchical folder layers.

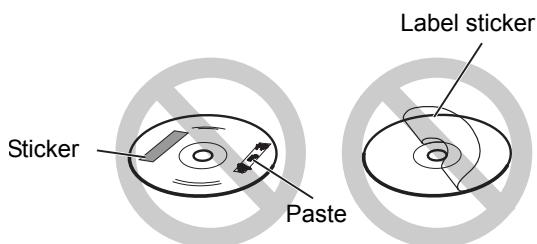
This system simplifies the hierarchical construction of files and manages folders by “groups”.



This system can recognize up to 4 000 tracks/files on a disc. Also, the system can recognize up to 999 tracks/files per group and up to 99 groups on a disc. Since the system ignores the tracks/files with numbers exceeding 999 and the groups with numbers exceeding 99, these cannot be played back. If there are any type of files other than MP3/WMA/WAV/JPEG/ASF/DivX/MPEG1/MPEG2 files on a disc, those files are also counted in the total number of files.

Handling discs

- Do not use a commercially-available non-standard shape disc (like a heart, flower or credit card, etc.), because it may damage the system.
- Do not use a disc with tape, stickers, or paste on it, because it may damage the system.
- Do not bend the disc.



Cleaning discs



Wipe the disc from the center outward with a soft cloth.

- Scratches concentrated on a certain part cause sound dropout.
- Be sure not to use thinners, benzenes, cleaners for analog records, or other chemical agents.

Troubleshooting

■ General

Problem	Possible cause	Possible solution	Reference page
Power does not come on.	The power cable is not connected to an AC outlet.	Connect the power cable correctly.	10
You cannot operate any button.	Some specific operations are restricted.	This is not a malfunction.	–
The remote control does not work.	The batteries are running low.	Replace the batteries.	4
You cannot operate the main unit using the remote control.	Function assigned to some buttons change according to the remote control mode.	Slide the remote control mode selector to [AUDIO], [SHIFT] or the lowest position to select an appropriate mode to your desired function.	–
A whirring noise can be heard.	The main unit is located close to a TV, computer, or other electric appliance.	Place the main unit away from a TV, computer, or other electric appliance.	56
No picture is produced.	Improper connection.	Connect all cables properly.	8-10
The picture is distorted.	A video cassette recorder is connected between the main unit and the TV.	Connect the main unit directly to the TV.	9
	The video signal type setting is not appropriate.	Select the video signal type suitable for your TV.	11
The screen size is abnormal.	The screen size setting is not appropriate.	Select the display method suitable for your TV.	43
The TV screen darkens.	The screen saver setting is activated.	Press any button.	43
No picture/sound is produced via the [HDMI MONITOR OUT] terminal.	A disc/file recorded in a format incompatible with the main unit/TV is played back.	Confirm the playable disc/file types.	58
	The connected TV is not compatible with HDCP.	Connect a TV compatible with HDCP.	9
	The main unit fails to recognize the TV connected to the [HDMI MONITOR OUT] terminal.	Disconnect the HDMI cable and connect it again.	9
	An HDMI cable longer than 5 m (15 feet) is used.	Use an HDMI cable of 5 m (15 feet) or shorter to assure stable operation and picture quality.	–
The picture is distorted when the TV is connected to the [HDMI MONITOR OUT] terminal.	The proportion of the picture is not appropriate.	Connect the TV to the [AV] terminal, and select the video signal type and the output video signal setting.	8-12

(Continued on the next page)

■ General (continued)

Problem	Possible cause	Possible solution	Reference page
No sound is produced.	The speakers are not connected correctly.	Connect the speakers correctly.	6
	Headphones are connected.	Disconnect the headphone plug.	15
	The sound is turned off.	Restore the sound.	13
	If "NO AUDIO" is displayed in the display window, the disc may have been produced through illegal copying.	Check the disc at the store where it was purchased.	–
The sound is weak and can hardly be heard.	The volume level is low.	Increase the volume level.	14
The sound is distorted.	The volume is too high.	Turn down the volume.	13
A radio broadcast has interference from noise.	The antennas are not connected correctly.	Connect the antennas correctly.	5
A radio broadcast cannot be received.			
A noise is produced from the rear of the main unit.	The internal cooling fan produces the noise as the fan rotates.	The noise is not a malfunction. The cooling fan is used to prevent overheating of the main unit.	13
The HDMI CEC function does not work.	The connected TV is not compatible with the HDMI CEC function.	Refer to the operation manual of the TV.	–
	"OFF" is selected for the "CEC" setting.	Select "ON 1" or "ON 2" for the "CEC" setting.	44
When you disconnect the HDMI cable and connect it again, the HDMI CEC function does not work properly.	The previous connection setting is stored on the main unit.	Select "OFF" for the "CEC" setting, and then select "ON 1" or "ON 2" again.	55

■ For a loaded disc

Problem	Possible cause	Possible solution	Reference page
A disc cannot be played back.	If "REGION CODE ERROR!" appears on the TV screen, the region code number of a disc is not compatible with this system. (only for a DVD VIDEO)	Confirm the region code number compatible with this system.	58
	If "CANNOT PLAY THIS DISC" appears on the TV screen, the disc cannot be played back with this system.	Confirm the disc type playable with this system.	58
	The disc is upside down.	Place the disc on the disc tray with the printed surface facing up.	23
	Moisture has condensed on the lens.	Leave the main unit turned on, wait for approximately 1 or 2 hours, and then operate the main unit.	56
You cannot change the audio language/subtitle language/view angle.	The disc/file does not contain multiple audio languages/subtitle languages/view angles.	If only one audio language/subtitle language/view angle is recorded on the disc, you cannot change the setting.	36 and 40
No subtitles are displayed.	The disc/file contains no subtitles.	If no subtitles are recorded on the disc/file, you cannot display subtitles.	36
	You have not selected the subtitle language.	Select the subtitle language.	36
"LR ONLY" is displayed in the display window. (only for a DVD AUDIO)	When you play back a track for which down-mixing is prohibited and with multi-channel sound, the left and right sounds are output directly as they are.	This is not a malfunction.	–
A certain point on the disc cannot be played back properly.	The disc is scratched or dirty.	Clean or replace the disc.	61
MP3, WMA, WAV, JPEG, ASF, DivX, MPEG1 or MPEG2 file cannot be played back.	The loaded disc may include files of different types (MP3, WMA, WAV, JPEG, ASF, DivX, MPEG1 or MPEG2).	Select "FILE TYPE". You can play back only the files of the types selected with "FILE TYPE". If the main unit has read the file before you make the "FILE TYPE" setting, reset "FILE TYPE" to the desired file type, and then reload the disc.	43
The disc cannot be ejected.	Disc ejection is locked.	Unlock the disc ejection.	16

(Continued on the next page)

■ For a connected USB device

Problem	Possible cause	Possible solution	Reference page
Files on a USB device cannot be played back.	If "CANNOT PLAY THIS DEVICE" appears on the TV screen, the files on a USB device are not playable.	Check that the file types recorded on the USB device are compatible with this system.	58
MP3, WMA, WAV, JPEG, ASF, DivX, MPEG1 or MPEG2 file cannot be played back.	The connected USB device may include files of different types (MP3, WMA, WAV, JPEG, ASF, DivX, MPEG1 or MPEG2).	Select "FILE TYPE". You can play back only the files of the types selected with "FILE TYPE". If the main unit has read the file before you make the "FILE TYPE" setting, reset "FILE TYPE" to the desired file type, and then disconnect the USB device and connect it again.	43

If this system does not work properly even after taking the action in the above "Possible solution"
 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 cable from the outlet, wait for a while, and connect the power cable again.

Specifications

Main unit (CA-NXF7/ CA-NXF3/CA-NXF4B)

Tuner

FM frequency: 87.50 MHz – 108.00 MHz
AM frequency: 522 kHz – 1 629 kHz

Terminal (front of the main unit)

- USB digital input terminal x 1
- Audio output headphone terminal x 1
Impedance: 16 Ω – 1 k Ω

Terminal (rear of the main unit)

- Audio output speaker terminals x 1
Left/right speakers:
Output power: 200 W (50 W x 4) at 3 Ω
(1 kHz/10 % THD)
Impedance: 3 Ω – 16 Ω
Subwoofer
Output power: 150 W at 6 Ω
(100 Hz/10 % THD)
Impedance: 6 Ω – 16 Ω
- Optical digital input terminal x 1
–23 dBm to –15 dBm
- Optical digital output terminal x 1
–23 dBm to –15 dBm
- SCART terminal x 1
- Component video output terminals x 1
Y: 1.0 Vp-p, 75 Ω terminated
P_B: 0.7 Vp-p, 75 Ω terminated
P_R: 0.7 Vp-p, 75 Ω terminated
- Composite video output terminal x 1
1.0 Vp-p, 75 Ω terminated
- Audio input terminals x 1
500 mV/47 k Ω
- HDMI monitor output terminal x 1
- FM antenna terminal x 1
- AM antenna terminal x 1

USB

Compatible with USB 2.0 Full-Speed
Compatible device: USB mass storage class device
Compatible file system: FAT16, FAT32
Output power: DC 5 V = 500 mA

HDMI

Output power: DC 5 V = 55 mA

General

Power source: AC 230 V \sim , 50 Hz
Power consumption (in operation): 90 W
Power consumption (on standby): 0.8 W
Dimensions (W x H x D) [including projecting parts]:
300 mm x 95 mm x 295 mm
Mass: 3.4 kg

Speaker (SP-NXF7F/ SP-NXF3F/SP-NXF4BF)

Type: 1-way bass reflex type
Magnetically shielded type

Speaker driver:
Front ch: 5.5 cm cone
Surround ch: 5.5 cm cone

Power handling capacity:
Front ch: 50W
Surround ch: 50W

Impedance: 3 Ω

Frequency range: 80 Hz - 20 kHz
Sound pressure level: 77 dB/W•m

Dimensions (W x H x D) [including projection parts]:
89 mm x 221 mm x 125 mm (SP-NXF7F)
88 mm x 184 mm x 125 mm (SP-NXF3F/SP-NXF4BF)

Mass (1 speaker): 1.7 kg (SP-NXF7F)
1.2 kg (SP-NXF3F/
SP-NXF4BF)

Subwoofer (SP-NXF7W/ SP-NXF3W/SP-NXF4BW)

Type: Bass reflex type

Speaker driver: 16 cm cone

Power handling capacity: 150 W

Impedance: 6 Ω

Frequency range: 30 Hz - 200 Hz

Sound pressure level: 76 dB/W•m

Dimensions (W x H x D): 300 mm x 301 mm x 305 mm

Mass: 8.2 kg

Supplied accessories

Remote control x 1
Batteries x 2
FM antenna x 1
AM loop antenna x 1

Designs and specifications are subject to change without notice.

JVC

