JVC



DVD DIGITAL THEATER SYSTEM

TH-C60

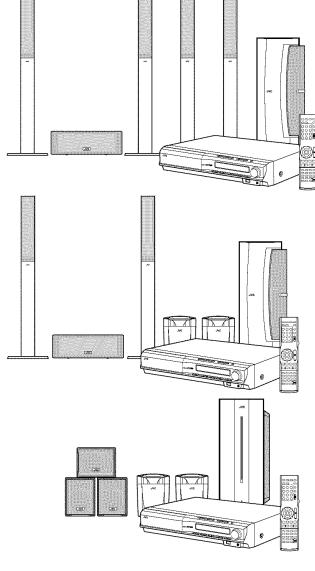
Consists of XV-THC60, SP-PWC60, SP-THC60F, SP-THC60C and SP-THC60S

TH-C50

Consists of XV-THC50, SP-PWC50, SP-THC60F, SP-THC60C and SP-THC50S

TH-C40

Consists of XV-THC40, SP-PWC40, SP-THC40F, SP-THC40C and SP-THC40S



















AV COMPULINK

Digital Direct Progressive Scan

INSTRUCTIONS

For Customer Use:

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

Model No.

Serial No.

Warnings, Cautions and Others/Mises en garde, précautions et indications diverses



CAUTION: TO REDUCE THE RISK OF ELECTRIC SHOCK, DO NOT REMOVE COVER (OR BACK). NO USER SERVICEABLE PARTS INSIDE. REFER SERVICING TO QUALIFIED SERVICE PERSONNEL.



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



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

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

For U.S.A.

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

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

Reorient or relocate the receiving antenna.

Increase the separation between the equipment and receiver. Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.

Consult the dealer or an experienced radio/TV technician for help.

Note to CATV system installer:

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

CAUTION

Changes or modifications not approved by JVC could void the user's authority to operate the equipment.

ATTENTION

Des changements ou modifications non approuvés par JVC pourront invalider l'autorité de l'utilisateur à opérer cet appareil.

For Canada

THIS DIGITAL APPARATUS DOES NOT EXCEED THE CLASS B LIMITS FOR RADIO NOISE EMISSIONS FROM DIGITAL APPARATUS AS SET OUT IN THE INTERFERENCE-CAUSING EQUIPMENT STANDARD ENTITLED "DIGITAL APPARATUS," ICES-003 OF THE DEPARTMENT OF COMMUNICATIONS.

Pour le Canada

CET APPAREIL NUMERIQUE RESPECTE LES LIMITES DE BRUITS RADIOELECTRIQUES APPLICABLES AUX APPAREILS NUMIRIQUES DE CLASSE B PRESCRITES DANS LA NORME SUR LE MATERIEL BROUILLEUR: "APPAREILS NUMERIQUES", NMB-003 EDICTEE PAR LE MINISTRE DES COMMUNICATIONS.

CAUTION!

To avoid personal injury or accidentally dropping the unit, have two persons unpack, carry, and install the unit.

ATTENTION!

Pour éviter toute blessure personnelle ou toute chute accidentelle de l'appareil, celui-ci doit être déballé, transporté et installé par deux personnes.



TH-C60: 39 kg/86 lbs TH-C50: 33 kg/73 lbs TH-C40: 24 kg/53 lbs TH-C60: 39 kg/86 lbs TH-C50: 33 kg/73 lbs TH-C40: 24 kg/53 lbs

IMPORTANT FOR LASER PRODUCTS

- 1. CLASS 1 LASER PRODUCT
- 2. **CAUTION**: Do not open the top cover. There are no user serviceable parts inside the unit; leave all servicing to qualified service personnel.
- 3. **CAUTION**: Visible and/or invisible class 1M laser radiation when open. Do not view directly with optical instruments.

IMPORTANT POUR PRODUITS LASER

- 1. PRODUIT LASER CLASSE 1
- 2. **ATTENTION**: N'ouvrez pas le couvercle supérieur. Il n'y a aucune pièce réparable par l'utilisateur à l'intérieur de l'appareil; confiez toute réparation à un personnel qualifié.
- ATTENTION: Rayonnement laser visible et/ou invisible de classe 1M une fois ouvert. Ne pas regarder directement avec des instruments optiques.

CAUTION

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

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

ATTENTION

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

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

CAUTION — O/l button! (XV-THC60/XV-THC50/ XV-THC40)

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

- When the system is on standby, the STANDBY lamp lights red.
- When the system is turned on, the STANDBY lamp goes off.

The power can be remote controlled.

ATTENTION - Touche 어/ (XV-THC60/XV-THC50/ XV-THC40)

Déconnectez la fiche d'alimentation secteur pour couper l'alimentation complètement (le témoin STANDBY s'éteint). Lors de l'installation de l'appareil, assurez-vous que la fiche soit facilement accessible.

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

- Quand le système est en attente, le témoin STANDBY est allumé en rouge.
- Quand le système est sous tension, le témoin STANDBY s'éteint.

L'alimentation ne peut pas être télécommandée.

CAUTION (SP-PWC60/SP-PWC50/ SP-PWC40)

The power supply to the subwoofer is linked to the center unit. The POWER ON lamp on the subwoofer lights green when the power is turned on.

ATTENTION (SP-PWC60/SP-PWC50/ SP-PWC40)

L'alimentation au caisson d'extrêmes graves passe par l'unité centrale. Le témoin POWER ON vert sur le caisson d'extrêmes graves s'allume quand le système est allumé.



[European Union only]
[Union européenne seulement]

Table of contents

Introduction	2
Notes on handling	
Supplied accessories	2
About discs	7
Playable disc typesPlayable file types	
, , , , ,	
Description of parts and controls	5
Connections	8
Connecting the FM and AM antennas	
Connecting the satellite (front, center, surround) speakers.	
Speaker layout	12
Connecting a TV	
Connecting the powered subwoofer	
Connecting to an analog component	
Connecting to a digital component	
Connecting a USB mass storage class device	
Connecting the power cord	13
Operating external components with the	
remote control	.14
Operating the TV	
Operating the DBS tuner or CATV converter	
Operating the VCR	15
Basic operations	.16
Turning the system on/off	
Selecting the source to play	
Adjusting the volume [VOLUME]	
Listening with headphones (not supplied)	17
Turning off the sound temporarily [MUTING]	17
Adjusting the brightness of the indications [DIMMER]	
Sleep Timer [SLEEP]	
Adjusting the output level of the subwoofer and speakers	
Adjusting the sound	
Changing the scan mode	18

Playback	19
Basic playback	19
One Touch Replay	21
Fast-forward/fast-reverse search	21
Skip to the beginning of a desired selection	22
Skipping at about 5-minute intervals	22
Locating a desired title/group using number butte	
Advanced operations	23
Using the surround mode	23
Using the on-screen bar	25
Playing from a specified position on a disc	26
Using the file control display	27
Resume Playback	28
Selecting a view angle	28
Selecting the subtitle	28
Selecting the audio	
Special picture playback	29
Program Playback	
Random Playback	
Repeat Playback	
Tray lock	
Sound and other settings	32
Setting DVD preferences	
Using the setup menus	
Menu description	33
Tuner operations	36
Manual tuning	
Preset tuning	
Selecting the FM reception mode	
Reducing the noise of AM broadcast	37
AV COMPU LINK remote control syste	m 38
References	39
Maintenance	39
Troubleshooting	39
Specifications	40

Notes on handling

■ Important cautions

Installation of the system

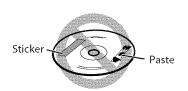
- Select a place which is level, dry and neither too hot nor too cold; between 5°C and 35°C (23°F and 95°F).
- Leave sufficient distance between the system and the TV.
- Do not use the system in a place subject to vibration.

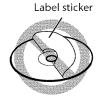
Power cord

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

To prevent malfunctions of the system

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





Note about copyright laws

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

Note about copyguard system

The discs are protected by copyguard system. When you connect the system to your VCR directly, the copyguard system activates and the picture may not be played back correctly.

■ Safety precautions

Avoid moisture, water and dust

Do not place the system in moist or dusty places.

Avoid high temperatures

Do not expose the system to direct sunlight and do not place it near a heating device.

When you are away

When away on travel or for other reasons for an extended period of time, disconnect the power cord plugs 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 cord plug from the wall outlet, then call the store where you made your purchase. Using the system in this condition may cause a fire or electrical shock.

Supplied accessories

Check to be sure you have all of the supplied accessories.

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

If anything is missing, contact your dealer immediately.

- Remote control (1)
- Batteries (2)
- FM antenna (1)
- AM loop antenna (1)
- Power cord (1)
- System cord (1)
- Composite video cord (1)
- Speaker cords (for TH-C60/TH-C50)
 4 m (13.2 ft): For satellite (front left/right) and center speakers (3)
 10 m (32.8 ft): For satellite speakers (surround left/right) (2)
- Screws

TH-C60:

M5 x 40 mm (M5 x 1-5/8 inches) (4)

M4 x 20 mm (M4 x 13/16 inches) (8)

TH-C50:

M5 x 40 mm (M5 x 1-5/8 inches) (2)

M4 x 20 mm (M4 x 13/16 inches) (4)

Speaker cord clamps

TH-C60 (4)

TH-C50 (2)

Playable disc types

This system has been designed to play back the following discs:

DVD VIDEO	Audio CD		
VIDEO VIDEO	COMPACT DISTORIAL AUDIO		
VCD	SVCD		
Video CD	SUPER VIDEO VIDEO		

The $\sqrt{}$ in the list below shows available disc types and recording formats.

Disc type Recording format	CD-R/-RW* ¹	DVD-R* ¹	DVD-RW*1
DVD Video		1	√
VCD/SVCD			
Audio CD	V		
MP3	V	√*2	√*2
WMA	VMA √		√*2
JPEG	V	√*2	√*2
ASF	V	√*2	√*2
MPEG-2	√*3	√*2	√*2
MPEG-1	√*3	√*2	√*2
DivX	√	√*2	√*2

- *1 This system can play finalized discs only.
- *2 Recorded with UDF Bridge format.
- *3 This system may not be able to play back a file if the file size is too large.
- It is possible to play back finalized +R/+RW (DVD Video Format only) discs. "DVD" lights on the display panel when a +R/+RW disc is loaded.
- This system accommodates the NTSC system, and also can play discs recorded with PAL system. Note that an PAL video signal on a disc is converted to the NTSC signal and output.
- The Non-DVD side of a "DualDisc" does not comply with the "Compact Disc Digital Audio" standard. Therefore, the use of Non-DVD side of a DualDisc on this product may not be recommended.
- On some DVD VIDEOs, VCDs or SVCDs, their actual operation may be different from what is explained in this manual. This is due to the disc programming and disc structure, not a malfunction of this system.

DVD Logo is a trademark of DVD Format/Logo Licensing Corporation.

Notes on DVD-R and DVD-RW

- This system does not support "multi-border" disc.
- This system does not support a disc recorded with DVD VR format.

Notes on CD-R and CD-RW

- This system can play CD-Rs or CD-RWs recorded with ISO 9660 format.
- This system supports "multi-session" discs (up to 12 sessions).
- This system cannot play "packet write" discs.

Region code of DVD VIDEO

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

Example of playable DVD:









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

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

Unplayable discs

DVD-ROM, DVD-RAM, CD-I (CD-I Ready), Photo CD, SACD, etc.

Playing back these discs will generate noise and damage the speakers.

Playable file types

For all playable files

 The system can only recognize and play files with one of the following extensions, which can be in any combination of upper and lower case;

MP3: ".MP3", ".mp3"
WMA: ".WMA", ".wma"

JPEG: ".JPG", ".JPEG", ".jpg", ".jpeg"

ASF: ".ASF", ".asf"

MPEG-2/MPEG-1: ".MPG", ".MPEG", ".mpg", ".mpeg" DivX: ".DIVX", ".DIV", ".divx", ".div", and ".AVI", ".avi"

- The system recognizes up to 150 tracks (files) per group, 99 groups per disc/device, and the total number of the tracks (files) that the system can play is 4000.
- Some files may not be played back normally because of their disc characteristics or recording conditions.
- MP3/WMA/JPEG/ASF/MPEG-2/MPEG-1/DivX files require a longer readout time. (It differs due to the complexity of the directory/file configuration.)
- If different kinds of files are mixed, set the FILE TYPE setting in the PICTURE menu to the appropriate setting for the data to be read ("AUDIO", "STILL PICTURE" or "VIDEO"). (See page 34.)

For MP3/WMA files

- The system supports MP3/WMA files recorded with a bit rate of 32 – 320 kbps and a sampling frequency of 16 kHz, 22.05 kHz, 24 kHz*, 32 kHz, 44.1 kHz, or 48 kHz.
- If the track information (track title, artist, and album name, etc.) is recorded, it appears in the file control display on the TV screen. (See page 27.)
- We recommend to record each piece of material (song) at a sample rate of 44.1 kHz and at a data transfer rate of 128 (96*) kbps.
 - * For WMA only

For JPEG files

- We recommend to record a file at 640 x 480 resolution. (If a file has been recorded at a resolution of more than 640 x 480, it will take a longer time to be displayed.)
- · This system can only play baseline JPEG files.

For ASF files

- The system supports the types of the advanced simple profile as MPEG-4 files (MPEG-4 ASF).
- The system supports MPEG-4 files with the following conditions:
 File format: ASF

Visual profile: MPEG-4 SP (Simple Profile)

Audio CODEC: G.726

Max. picture size: 352 x 288 (CIF)

Max. bit rate: 384 kbps

For MPEG-2/MPEG-1 files

- The stream format 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 file format should be MP@ML (Main Profile at Main Level)/ SP@ML (Simple Profile at Main Level)/MP@LL (Main Profile at Low Level).
- Audio streams should conform to MPEG1 Audio Layer-2 or MPEG2 Audio Layer-2.

For DivX files

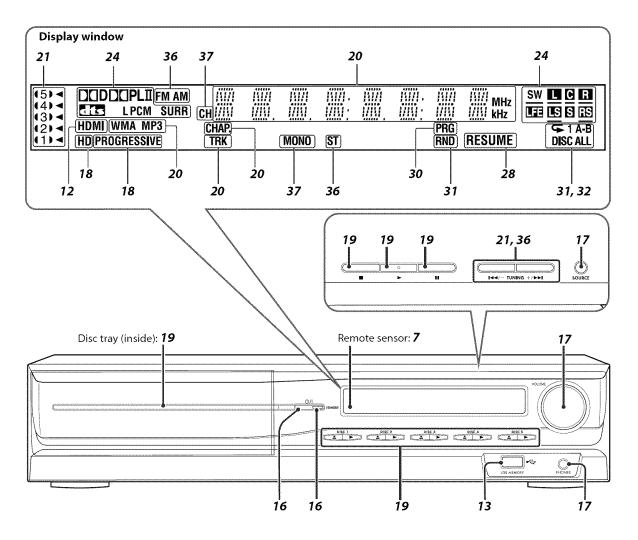
- The system supports DivX 6.x, 5.x, 4.x and 3.11.
- The system supports DivX files whose resolution is 720 x 480 pixels or less (30 fps), and 720 x 576 pixels or less (25 fps).
- Audio stream should conform to Dolby Digital (including multi channel) or MPEG1 Audio Layer-3 (MP3).
- The system does not support GMC (Global Motion Compression).
- The file encoded in the interlaced scanning mode may not be played back correctly.
- The system has its own Registration Code for DivX playback.
- If necessary, you can confirm the Registration Code of your system using the OTHERS menu. (See page 35.)

- 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.
- 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

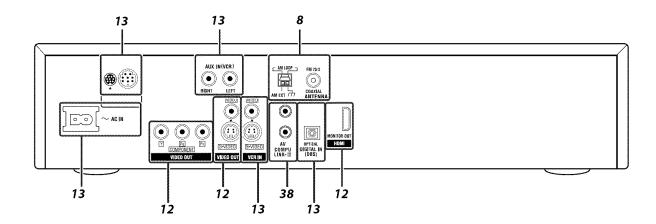
Description of parts and controls

Front panel (center unit)

The numbers in the figures indicate the pages where the details of the parts are described.

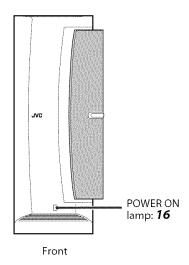


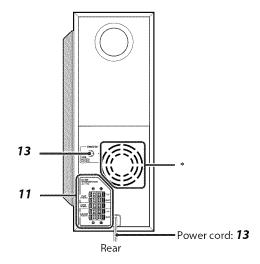
Rear panel (center unit)



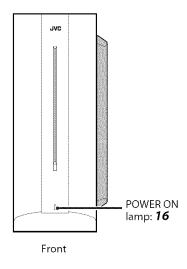
Powered subwoofer

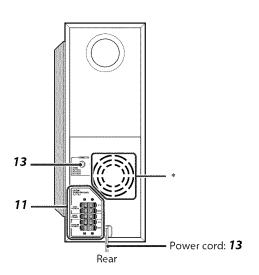
SP-PWC60/SP-PWC50





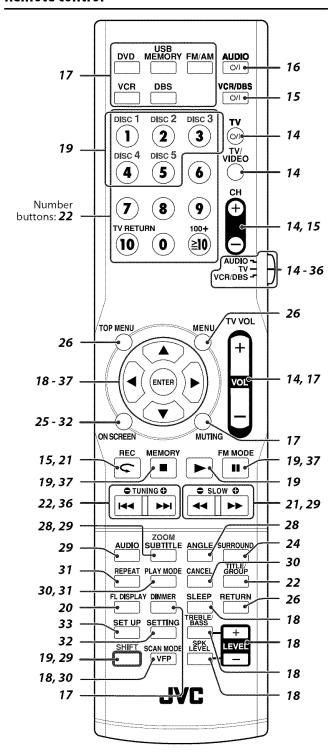
SP-PWC40



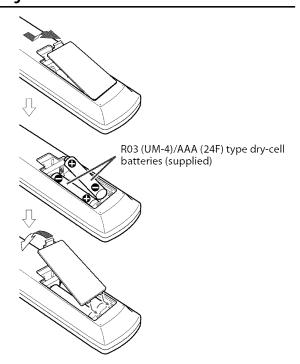


- For safety reasons, always ensure that there is sufficient space behind the powered subwoofer.
- * Do not block the ventilation openings to allow proper air circulation by the cooling fan.

Remote control



Putting batteries in the remote control



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

CAUTION

• Do not expose batteries to heat or flame.

Operating the system from the remote control

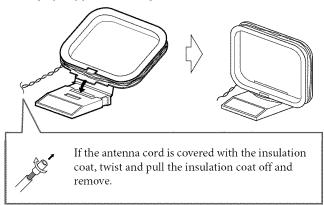
Aim the remote control directly to the front panel of the center unit.

• Do not block the remote sensor.

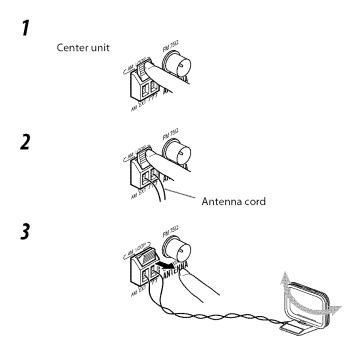
Connecting the FM and AM antennas

■ AM loop antenna

Setting up supplied AM loop antenna



Connecting AM loop antenna

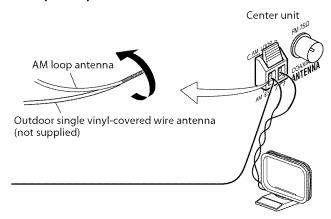


 Turn the loop antenna until you have the best reception during AM broadcast program reception.

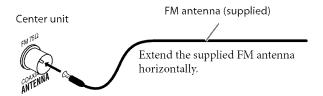
NOTE

• Make sure the antenna conductors do not touch any other terminals, connecting cords or power cords. This could cause poor reception.

If reception is poor

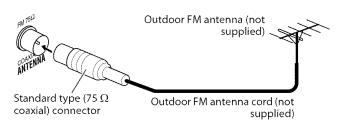


■ FM antenna



If reception is poor

Center unit



NOTE

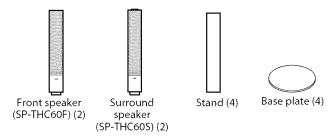
• We recommend that you use coaxial cable for the FM antenna as it is well-shielded against interference.

Connecting the satellite (front, center, surround) speakers

■ Assembling the speakers — TH-C60/TH-C50

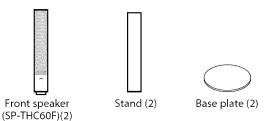
- For TH-C60: Assemble front speakers and surround speakers.
- For TH-C50: Assemble front speakers. For the surround speakers of TH-C50, see "Connecting the surround speakers — TH-C50". (See page 10.)

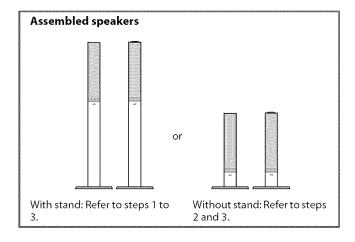
For TH-C60



 Check the model name of each speaker from the label on the rear to locate each speaker correctly.

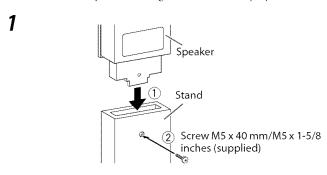
For TH-C50

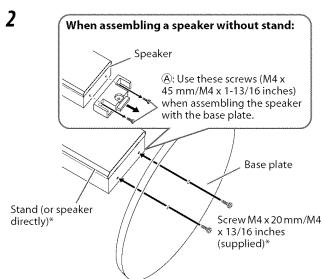




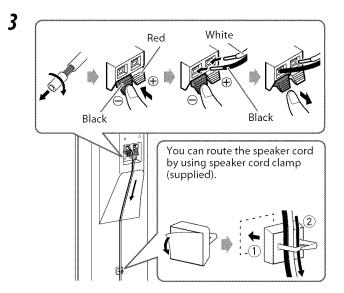
Before assembling —

- Prepare a Phillips screwdriver (not supplied).
- Take care not to drop any component part while assembling; otherwise, it may cause damage to the floor or injury.





When assembling the speaker with the base plate, use the screws (a).

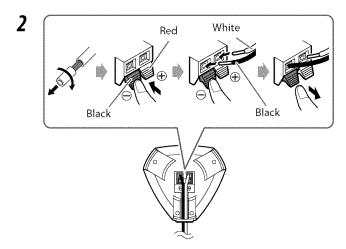


■ Connecting the surround speakers — <u>TH-C50</u>



Surround speaker (SP-THC50S) (2)

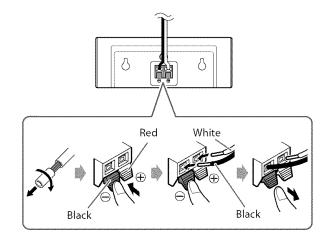




■ Connecting the center speaker — <u>TH-C60/TH-C50</u>



Center speaker (SP-THC60C) (1)



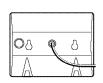
For TH-C40, the front, surround and center speakers are equipped with their speaker cords attached directly to their speaker unit instead of having speaker terminals on their cabinet.



Front speaker (SP-THC40F)



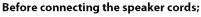
Surround speaker (SP-THC40S)



Center speaker (SP-THC40C)

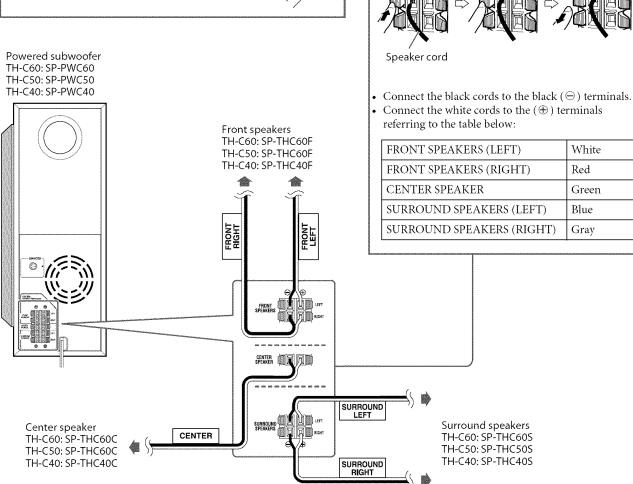
■ Connecting the satellite speakers to the subwoofer

Note that the illustration below is for SP-PWC60.



Twist and pull the insulation coat off and remove.





CAUTION

- If you connect speakers other than the supplied ones, use speakers of the same speaker impedance (SPEAKER IMPEDANCE) indicated near the speaker terminals on the rear of the powered subwoofer.
- DO NOT connect more than one speaker to one speaker terminal.
- When installing the satellite speakers on the wall;
 - Be sure to have them installed on the wall by qualified personnel.
 DO NOT install the satellite speakers on the wall by yourself to avoid unexpected damage from 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 equipment may result if the speakers installed interfere with daily activities.

Precautions for daily use

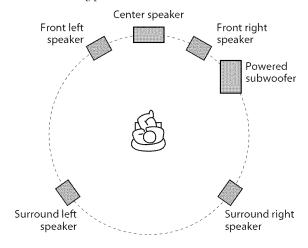
- When moving the speakers, do not pull the speaker cords; otherwise, the speakers may fall over, causing damage or injury.
- Do not reproduce sounds at so high a volume that the sound is distorted; otherwise, the speakers may be damaged by internal heat buildup.

For TH-C60/TH-C50:

- When holding a speaker, always grasp the lower portion.
- Do not lean against the speakers, as the speakers could fall down or break, possibly causing an injury. Especially be careful that children do not lean against them.

Speaker layout

To obtain the best possible sound from this system, you need to place all the speakers except the subwoofer at the same distance from the listening position.



If your speakers cannot be placed at the same distance from the listening position

You can adjust the delay time of the speakers. See "Delay menu (DELAY)" on page 35.

NOTE

- · Place the satellite speakers on a flat and level surface.
- The front and center speakers are magnetically shielded to avoid color distortions on TVs. However, if not installed properly, they may cause color distortions. So, pay attention to the following when installing the speakers.
 - When placing the speakers near a TV set, turn off the TV's main power switch or unplug it before installing the speakers. Then wait at least 30 minutes before turning on the TV's main power switch again.

Some TVs may still be affected even though you have followed the above. If this happens, move the speakers away from the TV.

- The surround speakers are not magnetically shielded.
 If they are located nearby the TV or monitor, it will probably cause color distortion on the screen. To avoid this, do not place the speakers nearby the TV or monitor.
- Be sure to place the powered subwoofer to the TV's right. If you place the powered subwoofer to the TV's left, keep sufficient distance between them to prevent the TV screen from appearing mottled.

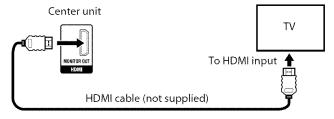
Connecting a TV

- Distortion of picture may occur when connecting to the TV via a VCR, or to a TV with a built-in VCR.
- You need to set "MONITOR TYPE" in the PICTURE menu correctly according to the aspect ratio of your TV. (See page 34.)

■ To connect a TV equipped with the HDMI jack

HDMI connection allows you to enjoy high quality picture on your HDMI equipped TV with high-definition digital video signals.

 You can select the type of video signal from 480p, 1080i, or 720p. (See page 18.)



NOTE

- This system outputs the signal to HDMI MONITOR OUT terminal only when the source is DVD.
- This system outputs the audio signal of 48 kHz, 44.1 kHz, or 32 kHz Linear PCM from HDMI MONITOR OUT terminal. To activate or deactivate the audio signal output from HDMI terminal, see page 34.
- HDMI indicator lights on the display window when the system and the TV recognize each other and are ready to send and receive signals.
- When you enjoy HDCP contents, sound and picture may not be transmitted to the speakers and TV for a few seconds in the beginning for confirmation.

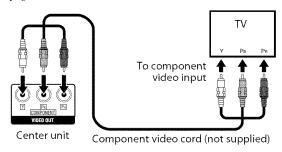
What is HDMI?

The HDMI (High Definition Multimedia Interface) is the standard interface for the next-generation TV. By connecting this system and a TV with the HDMI cable, digital video signals and audio signals are transmitted through the cable. You can enjoy digital video and sound without AD/DA conversion with easy connection.

In addition, this system is compatible with HDCP (High-Bandwidth Digital Content Protection), and HDCP contents can be viewed if you connect a HDCP compatible TV to this system.

■ To connect a TV equipped with the component video input jacks

- With analog video connection, you can get better picture quality in the order — Component video > S-video > Composite video.
- If your TV supports progressive video input, you can enjoy a high quality picture by setting the progressive scan mode to active. (See page 18.)



NOTE

- If the component video input jacks of your TV are of the BNC type, use a plug adapter (not supplied) to convert the pin plugs to BNC plugs.
- The component video signals can be output only when you select DVD or USB MEMORY as the source to play. (See page 17.)

■ To connect a TV equipped with the composite or S-video jacks

Composite video cord (supplied)

or

S-video cord (not supplied)

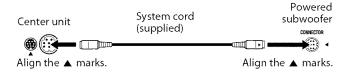
Align the A marks.

To S-video input

To composite video input

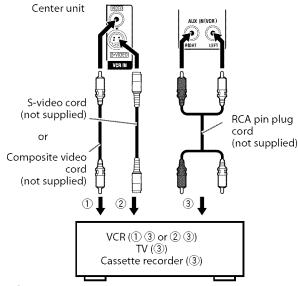
TV

Connecting the powered subwoofer



Connecting to an analog component

You can enjoy the sound of an analog component.



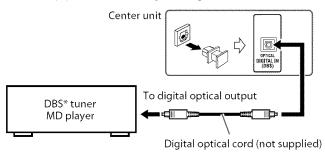
- ① To composite video output
- ② To S-video output
- ③ To audio output

NOTE

 The signals input to the VIDEO jack of the VCR IN jacks will be output only from the VIDEO jack of the VIDEO OUT jacks, not from the S-VIDEO jack of the VIDEO OUT jacks.

Connecting to a digital component

You can enjoy the sound of a digital component.



* DBS = Direct Broadcasting Satellite

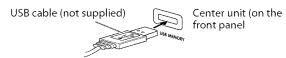
NOTE

 Only digital audio signals can be input when selecting "DBS" as the source to play. (See page 17.) When connecting a video component such as a DBS tuner, operate this system to listen to the sound.

Connecting a USB mass storage class device

You can connect a USB mass storage class device such as a USB flash memory device, hard disc drive, multimedia card reader, digital camera, etc. to this system.

 After connecting a USB mass storage class device to this system and selecting USB MEMORY as the source, the file control display appears on the TV screen. (See page 27.)

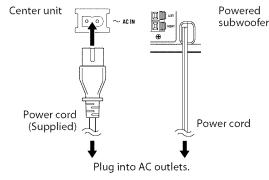


NOTE

- When connecting a USB mass storage class device, refer also to its manual.
- Connect one USB mass storage class device to the system at a time. Do not use a USB hub.
- You cannot charge the USB mass storage class device while connecting it to the USB MEMORY jack.
- While playing back a file in a USB mass storage class device, do not disconnect the device. It may cause a malfunction of both the system and the device.
- JVC bears no responsibility for any loss of data in the USB mass storage class device while using this system.
- When connecting with a USB cable, use a cable less than 1 m (3.3 ft) in length.
- This system is compatible with the USB 2.0 Full-Speed (not compatible with the USB 1.1).
- You can play back the following types of files in a USB mass storage class device (maximum data transfer rate: 2 Mbps):
 - Music: MP3, WMA
 - Picture: JPEG
 - Movie: MPEG-4 (ASF), DivX (maximum frame rate of 30 fps for progressive)
- You cannot play back a file larger than 2 GB.
- When playing a file which has a large transfer rate, frames or sounds may be dropped during playback.
- This system cannot recognize a USB mass storage class device whose rating exceeds 5 V/500 mA.
- This system may not recognize some USB mass storage class devices.
- This system may not play back some files even though their formats are listed above.

Connecting the power cord

Make sure that all other connections have been completed.

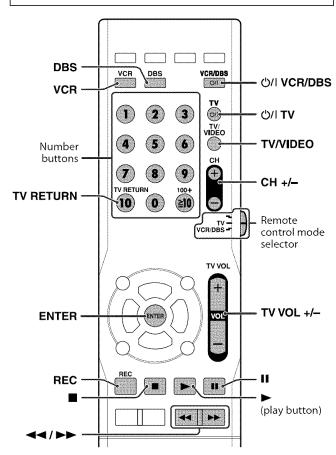


CAUTION

- Disconnect the power cord before cleaning or moving the system.
- Do not pull on the power cord to unplug the cord. When unplugging the cord, always grasp and pull the plug so as not to damage the cord.

Operating external components with the remote control

The buttons described below are used on pages 14 and 15.



NOTE

- Manufacturers' codes are subject to change without notice.
- Set the codes again after replacing the batteries of the remote control.

Operating the TV

- To set the manufacturer's code
- 1 Slide the remote control mode selector to TV.
- $oldsymbol{2}$ Press and hold $oldsymbol{\circ}$ $oldsymbol{\mathsf{TV}}.$

Keep the button pressed until step 4 is finished.

- 3 Press ENTER.
- 4 Press number buttons (1-9, 0) to enter the manufacturer's code (2 digits).

Examples:

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

Manufacturer	Code	Manufacturer	Code
JVC	01*	Samsung	12
Hitachi	10	Sanyo	13, 14
Magnavox	02	Sharp	06
Mitsubishi	03	Sony	07
Panasonic	04, 11	Toshiba	08
Philips	15	Zenith	09
RCA	05		

^{* &}quot;01" is the initial setting.

5 Release 🖰/ TV.

If there is more than one code listed for corresponding brand, try each one until you enter the correct one.

Operation

Aim the remote control at the TV.

IMPORTANT

Before using the remote control to operate a TV;

• Set the remote control mode selector to TV.



The following buttons are available:

O/I TV:

Turns TV on and off.

TV VOL +/-:

Adjusts the volume.

TV/VIDEO: Selects the input mode (either TV or

VIDEO).

CH +/-: Changes the channels. 1-10, 0, \ge 10 (100+): Selects the channel.

TV RETURN: Alternates between the previously selected

channel and the current channel.

NOTE

• The operating buttons may differ depending on manufacturers.

Operating the DBS tuner or **CATV** converter

- To set the manufacturer's code
- Slide the remote control mode selector to VCR/DBS.
- 2 Press DBS.
- Press and hold U/I VCR/DBS.

Keep the button pressed until step 5 is finished.

- **Press ENTER.**
- $oldsymbol{5}$ Press number buttons (1-9, 0) to enter the manufacturer's code (2 digits).

Examples:

For a GI Jerrold product: Press 0, then 1.

For a Sony product: Press 2, then 0.

Manufacturer	Code
Echostar	21
GI Jerrold	01*, 02, 03, 04, 05, 06, 07, 08
Hamlin	15, 16, 17, 18
Pioneer	13, 14
RCA	19
Scientific Atlanta	09, 10
Sony	20
Zenith	11, 12

^{* &}quot;01" is the initial setting.

Release U/I VCR/DBS.

If there is more than one code listed for your brand, try each one until you enter the correct one.

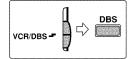
Operation

Aim the remote control at the DBS tuner or CATV converter.

IMPORTANT

Before using the remote control to operate a DBS tuner or CATV converter;

- Set the remote control mode selector to VCR/DBS.
- 2 Press DBS.



The following buttons are available:

Turns DBS tuner or CATV converter on and **め/I VCR/DBS**:

off

Changes the channels. 1-10, 0, \ge 10 (100+): Selects the channel.

Operating the VCR

- To set the manufacturer's code
- Slide the remote control mode selector to VCR/DBS.
- Press VCR.
- Press and hold U/I VCR/DBS.

Keep the button pressed until step 5 is finished.

- Press ENTER.
- 5 Press number buttons (1-9, 0) to enter the manufacturer's code (2 digits).

For a Philips VCR: Press 0, then 9. For an NEC VCR: Press 2, then 5.

Manufacturer	Code	Manufacturer	Code	
JVC	01*, 02, 03	Philips	09	
Emerson	11, 26	RCA	05, 06	
Fisher	29	Samsung	24	
Funai	10, 14, 15, 16	Sanyo	21, 22, 23	
Gold Star	12	Sharp	27, 28	
Hitachi	04	Shintom	30	
Mitsubishi	13	Sony	18, 19, 20	
NEC	25	Zenith	08	
Panasonic	07, 17			

^{* &}quot;01" is the initial setting.

Release U/I VCR/DBS.

If there is more than one code listed for your brand, try each one until you enter the correct one.

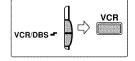
Operation

Aim the remote control at the VCR.

IMPORTANT

Before using the remote control to operate a VCR;

- Set the remote control mode selector to VCR/DBS.
- 2 Press VCR.



The following buttons are available:

め/I VCR/DBS: Turns VCR on and off. Starts playback. ► (play button): **:** Stops operation. Pauses playback. 11: Fast forwards video tape.

Rewinds video tape. RFC. Press this button together with ▶ (play

button) to start recording or together with II

to pause recording.

CH +/-: Changes the TV channels on the VCR.

NOTE

44

- When operating a VCR or DBS tuner/CATV converter;
- The source setting of VCR or DBS remains after you have changed the remote control mode selector to AUDIO or TV. When operating VCR or DBS tuner/CATV converter again, it is not necessary to press VCR or DBS after setting the remote control mode selector.

Basic operations

The buttons on the remote control are used to explain most of the operations in this manual. You can use the buttons on the center unit same as on the remote control for operations unless otherwise noted.

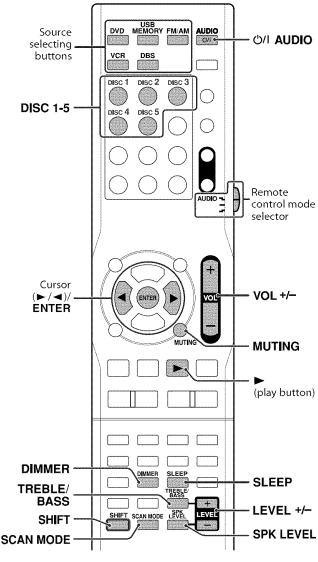
IMPORTANT

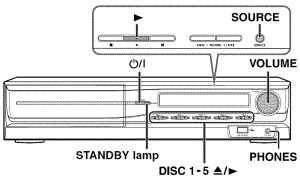
Before using the remote control for the following operation;

• Set the remote control mode selector to AUDIO.



The buttons described below are used on pages 16 to 18.





Turning the system on/off

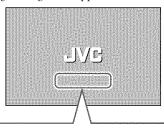
On the remote control:

Press 🖰 / AUDIO.

On the center unit:

Press 🖑 🗓 .

When DVD or USB MEMORY is selected as the source (see page 17), the following messages will appear on the TV screen.



• "OPEN"/"CLOSE":

Appears when opening or closing the disc tray.

"NOW READING"

Appears when the system is reading the disc/file information.

"REGION CODE ERROR!":

Appears when the Region Code of the DVD VIDEO does not match the code the system supports. The disc cannot be played back.

• "NO DISC":

Appears when no disc is loaded.

• "NO USB DEVICE":

Appears when no USB mass storage class device is connected.

• "CANNOT PLAY THIS DISC":

Appears when unplayable disc is loaded.

• "CANNOT PLAY THIS DEVICE":

Appears when unplayable USB mass storage class device is connected.

- The STANDBY lamp on the center unit lights red when the power is turned off. The lamp goes off when the power is turned on.
- The power supply to the subwoofer is linked to the center unit. The POWER ON lamp on the subwoofer lights green when the power is turned on.
- A small amount of power is consumed even when the power is turned
 off (center unit only). This is called standby mode and the STANDBY
 lamp lights in this mode. Unplug the power cord from the AC outlet
 to turn the power off completely.
- You can also turn on the system by pressing the following buttons;
 - One of the DISC (1-5) buttons (with SHIFT pressed) on the remote control
 - One of the DISC (1-5) **≜** buttons on the center unit
 - One of the source selecting buttons or ► (play button) on the remote control
 - One of the DISC (1-5) ➤ buttons or ➤ on the center unit.

Selecting the source to play

On the remote control:

Press one of the source selecting buttons (DVD, USB MEMORY, FM/AM, VCR or DBS).

DVD

To play back a disc (DVD VIDEO, VCD etc.). (See page 19.)

USB MEMORY:

To play back a file in a USB mass storage class device. (See "To play a file in a USB mass storage class device" on page 19.)

FM/AM:

To tune in an FM or AM station. (See page 36.) Each time you press the button, the band alternates between FM and AM.

VCR:

To select the source from a component connected to the VCR IN jacks and AUX IN (VCR) jacks. (See page 13.)

DBS:

To select the source from a component connected to the DIGITAL IN (DBS) jack. (See page 13.)

On the center unit:

Press SOURCE repeatedly until the source name you want appears on the display window.

NOTE

- When AM, FM or DBS is selected, this system does not output video signals.
- It may take time to change the source.

Adjusting the volume [VOLUME]

CAUTION

Always set the volume to minimum level before starting any source.
 If the volume is set at a high level, the sudden blast of sound could permanently damage your hearing and/or blow out the speakers.

On the remote control:

Press VOL +/-.

On the center unit:

Turn VOLUME.

- To increase the volume, turn VOLUME clockwise.
- To decrease the volume, turn VOLUME counterclockwise.

Listening with headphones (not supplied)

CAUTION

Be sure to turn down the volume;

- Before connecting or putting on headphones as high volume may damage both the headphones and your hearing.
- Before disconnecting headphones as high volume may be suddenly output from the speakers.

While connecting a pair of headphones to the PHONES jack on the center unit, the system automatically cancels the surround mode (see page 23) currently selected, deactivates the speakers, turns the subwoofer's power off, and activates the headphone mode. "H. PHONE" appears on the display window.

Headphone mode

When using the headphones, the following signals are output regardless of your speaker setting;

- For 2 channel sources, the front left and right channel signals are output from the headphones.
- Multi-channel signals are down-mixed and output from the headphones.

Turning off the sound temporarily [MUTING]

Press MUTING.

To restore the sound

Perform one of the following:

- · Press MUTING again.
- Press VOL +/- (or turn VOLUME on the center unit).

Adjusting the brightness of the indications [DIMMER]

Press DIMMER.

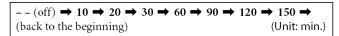
Each time you press the button, you can change the brightness level in 3 steps.

Sleep Timer [SLEEP]

The system turns off automatically when the specified period of time has passed.

Press SLEEP.

Each time you press the button, the shut-off time changes as follows:



Example:



To check the remaining time

Press SLEEP once.

To change the remaining time

Press SLEEP repeatedly.

To cancel

Press SLEEP repeatedly until "SLEEP - -" appears.

• Turning off the power also cancels the Sleep Timer.

Adjusting the output level of the subwoofer and speakers

1 Press SPK LEVEL to show the target speaker indication on the display window.

Each time you press the button, the indication of the speakers changes as follows:

FRNT L (Front Left speaker) → FRNT R (Front Right speaker) → CENTER (Center speaker) → SURR L (Surround Left speaker) → SURR R (Surround Right speaker) → SUBWFR (Subwoofer) → (back to the beginning)

2 Press LEVEL +/- to adjust the output level from -6 to +6.

NOTE

- You can also make adjustments by using the setup menu shown on the TV screen. (See page 35.)
- The adjustments take effect for all sources.

Adjusting the sound

1 Press TREBLE/BASS to show "TRE" or "BASS" on the display window.

Each time you press the button, the indication alternates between "TRE" and "BASS".

- TRE: Select this to adjust treble sound.
- BASS: Select this to adjust bass sound.

Press LEVEL +/- to adjust the level from - 10 to +10 (in 2 steps).

NOTE

• The adjustments take effect for all sources.

Changing the scan mode

The system can be accommodated to your TV's scan mode.

NOTE

- To use the system in the progressive mode, it is required that the center unit is connected to the TV by using an HDMI cable or a component video cord (not supplied). (See page 12.)
- While DVD or USB MEMORY is selected as the source and stopped

Press and hold SCAN MODE for 2 seconds.

Currently selected scan mode appears on the display window.

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

■ When connecting the TV with the component video cord:

■ When connecting the TV with the HDMI cable:

AUTO
$$\rightarrow$$
 480p* \rightarrow 1080i* \rightarrow 720p* \rightarrow (back to the beginning)

- When selecting "AUTO", the system outputs the video signal to get the best picture quality on your TV according to the High-Definition video signal compatibility of the TV.
- When selecting "AUTO", "1080i", or "720p", the system up-convert the 480i or 480p signal to 1080i or 720p.
- When "1080i" or "720p" is selected, the HD indicator lights on the display window.
- * 480i, 480p, 1080i, and 720p indicate the number of scanning lines and scanning format of a video signal.
- -480i/1080i indicates 480/1080 scanning lines with interlaced format.
- 480p/720p indicates 480/720 scanning lines with progressive format.
- Generally, you can get better picture quality by selecting the larger the number of scanning lines.
- You can get better picture quality in the progressive mode than in the interlace mode.

3 Press ENTER while the selected mode is displayed.

When the progressive mode is selected, the PROGRESSIVE indicator lights on the display window.

- Changing the scan mode does not take effect when connecting the TV with the S-video or the composite video cord.
- Although the picture may be distorted when you press ENTER, this is not a malfunction of the system.
- There are some progressive TVs and High-Definition TVs that are
 not fully compatible with this system, resulting in an unnatural
 picture when playing back a DVD VIDEO in the progressive scan
 mode. In such a case, change the scan mode to the interlace mode.
 To check the compatibility of your TV, contact your local JVC
 customer service center.
- All JVC progressive TVs and High-Definition TVs are fully compatible with this system.

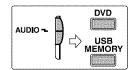
Playback

• The icon such as book shows the disc formats or file types the operation is available for.

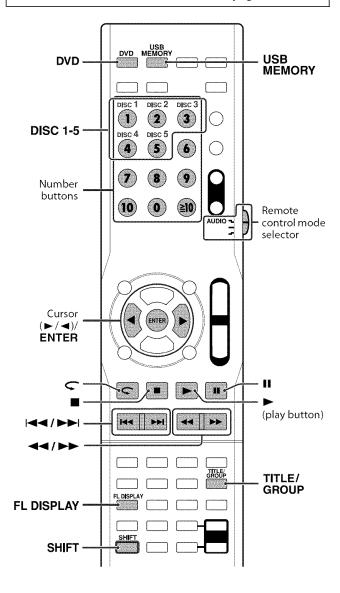
IMPORTANT

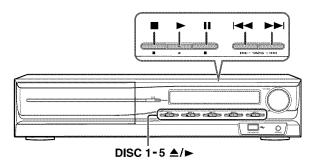
Before using the remote control for the following operation;

- Set the remote control mode selector to AUDIO.
- 2 Press DVD or USB MEMORY.



The buttons described below are used on pages 19 to 22.





Basic playback

■ To play a disc

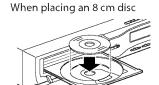
1 Press the desired DISC (1-5)▲ on the center unit.



The system turns on and the disc tray comes
out

Place a disc.

Label side up



3 Press DISC (1-5), with SHIFT pressed.

NOTE

- Up to 5 discs can be loaded.
- You can also start playback by pressing the following buttons;
- DVD or ➤ (play button) on the remote control
- DISC(1-5) ➤ or ➤ on the center unit.
- The system plays back available discs sequentially until you stop
 playback or until the disc loaded on the DISC 5 tray reaches to the
 end. However, when DVD VIDEO is loaded in the system, playback
 of the disc next to the DVD VIDEO will not start.

■ To play a file in a USB mass storage class device Press USB MEMORY.

The operations of the files in a USB mass storage class device depend on the file types stored in the device.

- For details on connecting a USB mass storage class device, see "Connecting a USB mass storage class device". (See page 13.)
- When playing the following files...
- For MP3/WMA files

The file control display (see page 27) appears on the TV screen.

• For JPEG files

Each file (still pictures) is shown on the TV screen for about 3 seconds (slide-show). When stopping playback, the file control display (see page 27) appears on the TV screen.

• For ASF/MPEG-2/MPEG-1 files

When stopping playback, the file control display (see page 27) appears on the TV screen.

· For DivX files

During the readout time, "Reading Index..." may appear on the TV screen. When stopping playback, the file control display (see page 27) appears on the TV screen.

NOTE

- When several types of files are recorded on a disc/device, select appropriate file type on the setup menu. (See page 34.)
- (For JPEG) The system cannot accept operations even though you
 press any buttons before the entire picture appears on the TV screen.

■ To pause playback

Press II.

To continue playback, press ► (play button).

■ To stop

Press ■.

■ On-screen guide icons

During DVD VIDEO playback, the following guide icons may appear for a while on the TV screen;

- em: appears at the beginning of a scene containing multi-subtitle languages.
- **(a)**: appears at the beginning of a scene containing multi-audio languages.
- (Play), (Pause), (Fast forward/fast-reverse); (Slow-motion forward/reverse): appears when you perform each operation.
- O : the disc cannot accept an operation you have tried to do.

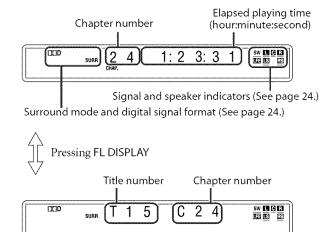
NOTE

• If you do not want the on-screen guide icons to appear, see page 35.

■ Playback information on the display window

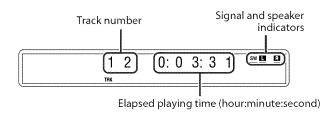
DVD VIDEO

Example: When a DVD VIDEO encoded with Dolby Digital 5.1 ch is played.



VCD/SVCD/CD

Example: When a CD is played back.

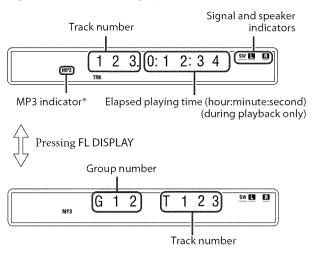


NOTE

 When a VCD or SVCD with PBC function is played, the elapsed playing time does not appear, but "PBC" appears.

MP3/WMA file

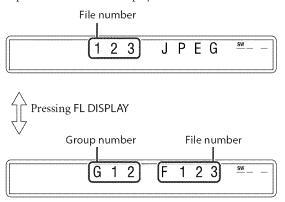
Example: When an MP3 file is played back.



* WMA indicator lights for WMA file.

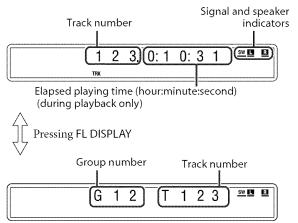
JPEG file

Example: When slide-show is played back.



ASF/MPEG-2/MPEG-1/DivX file

Example: When an ASF file is played.

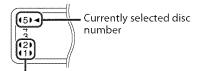


- You can change the time information mode (except for MP3/WMA/ ASF/MPEG-2/MPEG-1/DivX). (See page 25.)
- You can also check the playback information on the TV screen. (See page 25.)

■ Disc information on the display window

The disc indicators on the display window show the current status of the corresponding disc tray.

Example: When the discs are loaded to disc trays 1, 2 and 5, and the disc in the disc tray 5 is selected.



Currently loaded disc number

■ Screen saver

An image may burn in on a TV screen if a static picture is displayed for a long time. To prevent this, the system automatically dims the screen if a static picture is displayed for over 5 minutes (the screen saver function).

- Pressing any button will cancel the screen saver function.
- If you do not want to use the screen saver function, see page 34.

One Touch Replay

You can move back the playback position by 10 seconds from the current position.



■ During playback

Press C.

NOTE

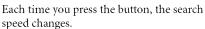
- This function works in the same title.
- This feature may not work for some discs.

Fast-forward/fast-reverse search

■ During playback

On the remote control:

Press ▶▶ or ◀◀.





To return to normal speed playback

Press ► (play button).

On the center unit:

Press and hold ▶▶ or ◄◄.

Continuously pressing ►►I or I◄◄ increases the fast-forward/ reverse search speed.

- When a DVD VIDEO, VCD, SVCD, or ASF/MPEG-2/MPEG-1/ DivX is played back, no sound comes out during fast-forward/reverse search.
- When a CD or MP3/WMA is played back, sound is intermittent during fast-forward/reverse search.
- This feature may not work for some discs/files.
- For MP3/WMA:
- The fast-forward/reverse search speed is not shown.
- The fast-forward/reverse search works within a same track.

Skip to the beginning of a desired selection

■ Using ►►!/!◄◄ buttons

- For DVD VIDEO (chapter): During playback
- For VCD/SVCD (track): During playback without PBC function
- For CD/MP3/WMA/JPEG/ASF/MPEG-2/ MPEG-1/DivX (track/file): During playback or while stopped

Press ▶▶ or ◄◄ repeatedly.

NOTE

- When playing back an MP3/WMA/JPEG/ASF/MPEG-2/MPEG-1/ DivX file, you can make operations using the file control display. (See page 27.)
- · This feature may not work for some discs/files.

■ Using number buttons on the remote control

- For DVD VIDEO (title, chapter):
 While stopped, the title number is selected.
 During playback, the chapter number is selected.
- For VCD/SVCD (track): During playback or while stopped without PBC function
- For CD/MP3/WMA/JPEG/ASF/MPEG-2/MPEG-1/DivX (track/file):

During playback or while stopped

Press number buttons (0-10, \ge 10) to select the desired number.

 For details on using the number buttons, see "How to use the number buttons" below.

How to use the number buttons

To select 3: Press 3. To select 10: Press 10.

To select 14: Press \ge 10, 1, then 4. To select 24: Press \ge 10, 2, then 4. To select 40: Press \ge 10, 4, then 0.

To select 114: Press ≥ 10 , ≥ 10 , 1, 1, then 4.

Skipping at about 5-minute intervals

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



■ During playback

Press Cursor ►/ ◄.

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

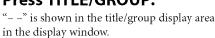
NOTE

- Intervals are automatically assigned from the beginning of a file.
- This feature is available only within the same file.
- · This feature may not work for some discs/files.

Locating a desired title/group using number buttons

■ During playback or while stopped

1 Press TITLE/GROUP.





Example: During DVD VIDEO playback

While the display window shows "--", use number buttons (0-10, ≥10) to enter the desired title or group number.

The system starts playback from the first chapter/track/file of the selected title/group.

• For details on using the number buttons, see "How to use the number buttons" on the left column.

NOTE

• This feature may not work for some discs/files.

Advanced operations

• The icon such as book shows the disc formats or file types the operation is available for.

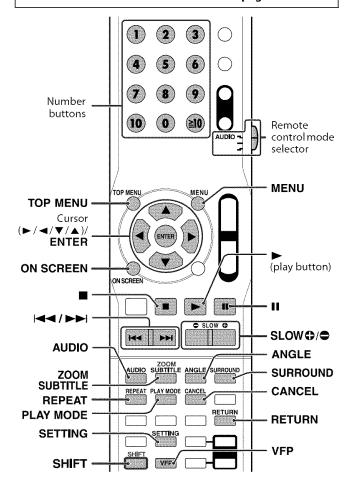
IMPORTANT

Before using the remote control for the following operation;

- Set the remote control mode selector to AUDIO.
- There are exceptions in the operation mentioned above. In such a case, follow each instruction.



The buttons described below are used on pages 23 to 32.



Using the surround mode

You can enjoy more realistic sound field than a stereo sound by using the surround mode.

■ Auto Surround (AUTO SUR)

Used to reproduce the sound as it is recorded without any conversion (downmixing or simulation, etc.). For example, a multichannel source is automatically reproduced in multichannel audio.

■ Dolby Surround

Dolby Pro Logic II*1

Dolby Pro Logic II has a newly developed multichannel playback format to decode all 2 channel sources — stereo source and Dolby Surround encoded source — into a 5.1 channel.

Dolby Pro Logic II has two modes — Movie mode and Music mode:

- Pro Logic II Movie (MOVIE)

 Suitable for reproduction of Dolby Surround encoded sources bearing the mark DCIDOLBY SURROUND).
- Pro Logic II Music (MUSIC)
 Suitable for reproduction of any 2 channel stereo music sources.

Dolby Digital*1

Used to reproduce multichannel soundtracks of the software encoded with Dolby Digital (PDODEN).

 There are other encoding formats of digital surround introduced by Dolby Laboratories, such as Dolby Digital EX.

■ DTS Digital Surround*²

Used to reproduce multichannel soundtracks of the software encoded with DTS Digital Surround ().

DTS Digital Surround (DTS) is another discrete multichannel digital audio format available on CD and DVD software.

 There are other encoding formats of multi-channel digital surround introduced by Digital Theater Systems, Inc., such as DTS-ES, DTS 96/24.

Available Surround modes for each input signal

The √ marks show available surround modes.

Mode	Surround off	Auto Surround	Dolby Surround		DTS Digital Surround DS		P	
Signal	OFF	AUTO SUR	MOVIE*3	MUSIC*3	DOLBY D	DTS	STADIUM*3	ALL ST*3
Dolby D (Multichannel)	V	V			√			
Dolby D (2 channel)	√	√	1	1	**********	***************************************	V	√
DTS Digital Surround (Multichannel)	√	√	Marrows .	********	******	V		********
DTS Digital Surround (2 channel)	1	V	V	√			√	V
Analog (VCR) or Linear PCM	V	V	V	√			√	V

^{*1} Manufactured under license from Dolby Laboratories. "Dolby", "Pro Logic", and the double-D symbol are trademarks of Dolby Laboratories.

 $^{^{*2}}$ "DTS" and "DTS Digital Surround" are registered trademarks of Digital Theater Systems, Inc.

^{*3} You can select these modes by pressing SURROUND. (See page 24.)

■ DSP

STADIUM

STADIUM mode adds clarity and spreads the sound, like in an outdoor stadium.

All Channel Stereo

All Channel Stereo (ALL ST) mode can reproduce a larger stereo sound field using all the connected (and activated) speakers. All Channel Stereo can be used while reproducing 2 channel stereo source.

Normal stereo sound







All Channel Stereo

■ Indicators on the display window

Digital signal format indicators

LPCM: Lights when Linear PCM signal comes in.

DID: Lights when Dolby Digital signals come in.

Lights when DTS Digital (Surround) signals come

in.

No indication: No digital signal indicator lights when analog

signals come in.

Dolby Surround mode indicator

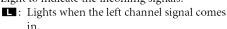
DIPLII: Lights when Dolby Pro Logic II mode is activated.

Surround indicator

SURR: Lights when the surround mode is activated.

Source signal indicators, etc.

Light to indicate the incoming signals.



C: Lights when the center channel signal comes in.

R: Lights when the right channel signal comes in.

Lights when the LFE channel signal comes in.

LS: Lights when the surround left channel signal comes in.

ES: Lights when the surround right channel signal comes in.

Lights when the monaural surround channel signal or 2 channel Dolby Surround signal comes in.

SW (Subwoofer): Always lights.

The channel with "—" shows that the corresponding speakers are reproducing the channels' sound.

If the channels' sound decoded into 5.1 channel is reproduced, only "—" lights.

Selecting the surround mode

The system is set up to automatically select the optimal surround mode for input signal from digital multichannel software. When playing back a 2 channel source, you can select the desired surround mode manually.

IMPORTANT

Before using the remote control for the following operation;

• Set the remote control mode selector to AUDIO.



When playing back digital multichannel software (except while OFF is selected)

The appropriate multichannel surround mode (Dolby Digital or DTS Digital Surround) is automatically selected.

■ When playing back a 2 channel source

You can select either Dolby Pro Logic II (MOVIE/MUSIC) or the DSP mode. $\label{eq:logic_problem}$

Press SURROUND repeatedly to select the desired mode.

The surround mode is turned on and the current surround mode appears on the display window.

Each time you press the button, the surround mode changes. For details on each mode, see "Available Surround modes for each input signal". (See page 23.)

To turn off the surround mode

Press SURROUND repeatedly until "OFF" appears on the display window.

Storing adjustments — auto memory

When you turn the power off, the system memorizes the current surround mode. The memorized mode is automatically recalled when you turn the power on.

NOTE

LFE LS S RS

• For ASF, MPEG-2, MPEG-1 and DivX (except DivX version 6), the surround mode takes no effects.

Using the on-screen bar

You can check disc information and you can use some functions using the on-screen bar.

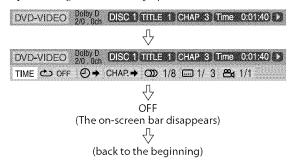
Showing the on-screen bar

■ Whenever a disc is loaded

Press ON SCREEN.

Each time you press the button, the onscreen bar changes as follows on the TV screen.

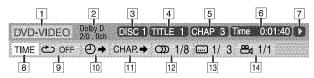
Example: During DVD VIDEO playback



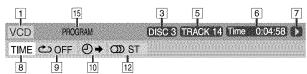
· The currently selected item shows as green with an arrow.

■ Contents of the on-screen bar during playback

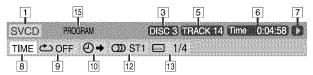
DVD VIDEO



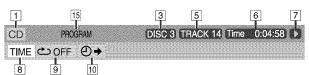
VCD



SVCD



CD



ASF/MPEG-2/MPEG-1/DivX



- Shows disc type.
- 2 Shows audio information.
- 3 Shows disc number.
- 4 Shows current title number.
- For DVD VIDEO: Shows current chapter number. For other type of discs: Shows current track number.
- Shows time information. See "Changing the time information" below.
- Z Shows playback status.
 - : appears during playback.
 - 🕟 / 🕼: appears during fast forward/reverse.
 - / **(1)**: appears during playback in forward slow-motion/reverse slow-motion.
 - appears when paused.
 - : appears when stopped.
- 8 Select this to change time information (6). See "Changing the time information" below.
- 9 Select this for Repeat Playback. (See page 31.)
- Select this for time search function. (See page 27.)
- [1] Select this for chapter search function. (See page 26.)
- Select this to change audio language or channel. (See page 29.)
- [3] Select this to change subtitle language and subpicture. (See page 28.)
- [4] Select this to change view angle. (See page 28.)
- Shows Playback mode status.

 PROGRAM: appears during Program Playback. (See page 30.)

 RANDOM: appears during Random Playback. (See page 31.)
- 16 Shows Repeat mode status. (See page 31.)

Changing the time information

You can change the time information in the on-screen bar on the TV screen and the display window of the center unit.



■ During playback

1 Press ON SCREEN twice.

The on-screen bar appears on the TV screen.

2 Press Cursor ► / ◄ to highlight TIME.

3 Press ENTER repeatedly to select the desired information.

Example: When elapsed playing time of disc is selected.

TOTAL 1:25:58

■ DVD VIDEO

- Time: Elapsed playing time of current chapter
- REM: Remaining time of current chapter
- TOTAL: Elapsed time of title
- T. REM: Remaining time of title

■ VCD/SVCD/CD

- Time: Elapsed playing time of current track
- REM: Remaining time of current track
- TOTAL: Elapsed time of disc
- T. REM: Remaining time of disc

4 Press ON SCREEN.

The on-screen bar disappears.

Playing from a specified position on a disc

You can start playing a title, chapter or track you specify. You can also play a disc from specified time.

Locating a desired scene from the DVD menu

DVD VIDEOs generally have their own menus which show disc contents and you can display them on the TV screen. You can locate a desired scene by using these menus.



■ Whenever a DVD VIDEO is loaded

1 Press TOP MENU or MENU.

The menu appears on the TV screen.

Normally, a DVD VIDEO which contains more than one title will have a "top" menu which lists the titles. Press TOP MENU to show the title menu.

Some discs may also have a different menu which is shown by pressing MENU.

See the instructions for each discs regarding its particular menu.

2 Use Cursor ►/◄/▼/▲ to select a desired item.

3 Press ENTER.

 With some discs, you can also select items by entering the corresponding number using number buttons.

NOTE

• This feature may not work for some discs.

Locating a desired scene using a VCD/SVCD menu with PBC

A VCD or SVCD recorded with PBC has its own menus such as a list of contained songs. You can locate a specific scene by using these menus.



■ During playback with PBC function

1 Press RETURN repeatedly until the menu appears on the TV screen.

2 Press number buttons (0-10, ≥10) to select the number of the desired item.

• For details on using the number buttons, see "How to use the number buttons". (See page 22.)

To return to the menu

Press RETURN repeatedly until the menu screen appears.

When "NEXT" or "PREVIOUS" is shown on the TV screen:

- To go to the next page, press ►►I.
- To return to the previous page, press I◄

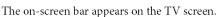
NOTE

- If you want to play a PBC-compatible VCD/SVCD without using the PBC function, perform any of the following:
 - Start playback by pressing number buttons while stopped.
 - Press ►►I repeatedly until the desired track number is displayed, then start playback by pressing ► (play button). The track number appears on the display window instead of "PBC".
- To activate the PBC function when playing a PBC-compatible VCD/ SVCD without using the PBC function, perform any of the following:
 - Press TOP MENU or MENU.
 - Press twice to stop playback, then press ► (play button).

Locating a desired chapter using the on-screen bar

■ During playback

Press ON SCREEN twice.



3 Press ENTER.



4 Press number buttons (0-9, ≥10) to enter the desired chapter number.

Example:

To select 8: Press 8.

To select 10: Press ≥ 10 , 1, then 0. To select 20: Press ≥ 10 , 2, then 0. To select 37: Press ≥ 10 , 3, then 7.

To correct a misentry

Repeat step 4.

5 Press ENTER.

6 Press ON SCREEN.

The on-screen bar disappears.

NOTE

· You can select up to the 99th chapter.

Locating a desired position by specifying the time

- For DVD VIDEO: During playback
- For VCD/SVCD: While stopped or during playback without PBC function



- For CD: During playback or while stopped
- When specifying the elapsed playing time from the beginning of the disc

Perform the following procedure while stopped.

When specifying the elapsed playing time from the beginning of the current title/track

Perform the following procedure during playback.

1 Press ON SCREEN twice.

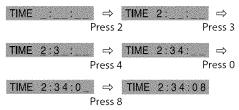
The on-screen bar appears on the TV screen.

- 3 Press ENTER.



4 Use number buttons (0-9) to enter the time.

Example: To play back from a point 2 (hours): 34 (minutes): 08 (seconds) elapsed



To correct a misentry

Press Cursor ◀ repeatedly.

- 5 Press ENTER.
- 6 Press ON SCREEN.

The on-screen bar disappears.

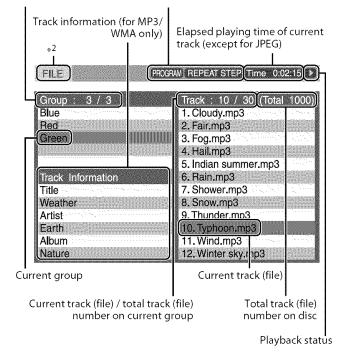
Using the file control display

You can search and play desired groups and tracks/ files using the file control display on the TV screen.



Example: When the source is DVD.

Current group/total group Playback mode*1 (PROGRAM, number RANDOM, REPEAT)



- *1 (For JPEG/ASF/MPEG-2/MPEG-1/DivX) The Program and Random mode are not available.
- *2 When the source is USB MEMORY, "USB" appears.

The file control display appears automatically during playback (MP3/WMA) or while stopped.

- For MP3/WMA: During playback or while stopped
- For IPEG/ASF/MPEG-2/MPEG-1/DivX: While stopped
- 1 Press Cursor ►/ ◄/ ▼/ ▲ to select the desired group/track/file.
 - For MP3/WMA, playback starts from the selected track.

2 Press ► (play button) or ENTER.

- Track playback/slide-show starts from the selected track/file.
- When you press ENTER for JPEG, only the selected file is played back.

- (For MP3/WMA) During playback, you can locate the desired track/ file by pressing ►► //► or Cursor ▲/▼.
- You can also check playback information on the display window. (See page 20.)
- Some group, track and file names may not be displayed correctly depending on recording conditions.
- The order of groups, tracks, and files may be displayed differently from the order displayed on your personal computer.
- The extension of the file may not be displayed if the file name is too long.

Resume Playback

When Resume Playback is set to "ON" (see page 35) and you stop playback by the following operations, the position where playback has been stopped is stored. (RESUME indicator lights on the display window.)



- Turning off the power (See page 16.)
- Pressing once
- Changing the source (See page 17.)

To start playback from the stored position

Press ► (play button) or DVD.

- There may be a case when ➤ (play button) does not work after changing the source. In this case, select DVD as a source.
- Pressing DISC (1-5) (with SHIFT pressed) on the remote control or DISC (1-5)

 on the center unit also resumes disc playback.

To clear the stored position

Press **a**gain.

 Opening the disc tray with the playback disc also clears the stored position.

NOTE

- This function is not available when USB MEMORY is selected as the source.
- (For DivX) The beginning of a scene where playback has been stopped may be stored.

Selecting a view angle

■ During playback of a disc containing multi-view angles



When using the ANGLE button:

7 Press ANGLE.

Example: The first view angle is selected out of 3 view angles recorded.



Press ANGLE repeatedly, or press Cursor ▼/▲ to select the desired view angle.

When using the on-screen bar:

1 Press ON SCREEN twice.

The on-screen bar appears on the TV screen.

3 Press ENTER.



- 4 Press Cursor ▼/ ▲ to select the desired view angle.
- 5 Press ENTER.
- 6 Press ON SCREEN.

The on-screen bar disappears.

Selecting the subtitle

■ During playback of a disc/file containing subtitles in several languages



When using the SUBTITLE button:

1 Press SUBTITLE.

Example (DVD VIDEO): "ENGLISH" is selected out of 3 subtitle languages recorded.



2 Press Cursor ▼/▲ to select the desired subtitle.

For SVCD

 An SVCD can contain up to four subtitles. Pressing SUBTITLE changes the subtitles regardless of whether the subtitles are recorded or not. (Subtitles will not change if no subtitle is recorded.)

When using the on-screen bar:

1 Press ON SCREEN twice.

The on-screen bar appears on the TV screen.

- **2** Press Cursor \triangleright / \triangleleft to highlight \sqsubseteq 1/3.
- 3 Press ENTER.



- 4 Press Cursor ▼/▲ repeatedly to select the desired subtitle.
- 5 Press ENTER.
- 6 Press ON SCREEN.

The on-screen bar disappears.

- To clear the subtitle, press SUBTITLE. Each time you press SUBTITLE, subtitle appears and disappears alternately.
- Some subtitle or audio languages are abbreviated in the pop-up window. See "The language codes list". (See page 33.)
- For DivX, you cannot operate this procedure using the on-screen bar.

Selecting the audio

■ During playback of a disc/file containing audio in several languages



When using the AUDIO button:

1 Press AUDIO.

Example (DVD VIDEO): "ENGLISH" is selected out of 3 audio languages recorded.



Press AUDIO repeatedly or press Cursor
▼/▲ to select the desired audio.

When using the on-screen bar:

1 Press ON SCREEN twice.

The on-screen bar appears on the TV screen.

3 Press ENTER.



- 4 Press Cursor ▼/ ▲ to select the desired audio.
- 5 Press ENTER.
- 6 Press ON SCREEN.

The on-screen bar disappears.

NOTE

- Some subtitle or audio languages are abbreviated in the pop-up window. See "The language codes list". (See page 33.)
- "ST", "L", or "R" is displayed when playing a VCD respectively representing "stereo", "left sound" and "right sound". When playing a SVCD, "ST1", "ST2", "L1", "R1", "L2", or "R2" is displayed.
- For DivX, you cannot operate this procedure using the on-screen bar.

Special picture playback

Frame-by-frame playback

■ During playback

Press II repeatedly.

Each time you press the button, the still picture advances by one frame.



To return to normal playback

Press ► (play button).

Playing back in slow-motion

■ During playback



Press II at the point where you want to start playback in slow-motion from.

The system pauses playback.

2 Press SLOW **⊕**.

Playback in forward slow-motion starts.

For DVD VIDEO only:

• To play back in reverse slow-motion, press SLOW .

Each time you press the button, the playback speed becomes faster.

Example: On the TV



To return to normal playback

Press ► (play button).

NOTE

• Sound cannot be heard during slow-motion playback.

Zooming in

During playback or while paused



Press ZOOM with SHIFT pressed.

Each time you press ZOOM with SHIFT pressed, scene magnification changes.

While zoomed in, press Cursor ►/◄/ ▼/▲ to move zoom-in area.

To return to normal playback

Press ZOOM repeatedly with SHIFT pressed, to select ZOOM \times 1.

- The number of the magnification steps varies depending on the disc type.
- During slide-show playback of JPEG, zooming in is not available. In such a case, press II to pause slide-show playback, then zoom in.
- During playback, there may be a case where Cursor (►/◄/▼/▲)
 does not work in step 2 above.

Changing the VFP setting

The VFP (Video Fine Processor) function enables you to adjust the picture character according to the type of programming, picture tone or personal preference.



■ During playback

1 Press VFP.

The current VFP settings appear on the TV screen.

Example:



- NORMAL: Normally select this.
- CINEMA: Suitable for movies.

When you select "NORMAL" or "CINEMA", press VFP to complete the setting.

• USER 1 and USER 2: You can adjust parameters that affect picture appearance.

Only when selecting "USER 1" or "USER 2" in step 2, proceed to perform the following operation;

3 Press Cursor ▼/▲ repeatedly to select a parameter you want to adjust.

Adjust gradually and confirm picture appearance results are as preferred.

• GAMMA:

Controls brightness of neutral tints while maintaining brightness of dark and bright portions.

• BRIGHTNESS:

Controls screen brightness.

• CONTRAST:

Controls screen contrast.

• SATURATION:

Controls screen color depth.

• TINT:

Controls screen tint.

• SHARPNESS:

Controls screen sharpness.

4 Press ENTER.

Example:



5 Press Cursor ▼/▲ to change the setting.

6 Press ENTER.

The current VFP settings appear again.

7 Repeat steps 3 to 6 to adjust other parameters.

8 Press VFP.

NOTE

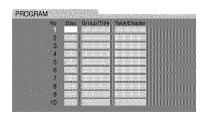
• Although the setting display disappears in the middle of the procedure, the setting at that time will be stored.

Program Playback

■ While stopped

Press PLAY MODE repeatedly until program window appears on the TV screen.

PRG indicator lights on the display window.



2 Follow the instructions that appear on the TV screen to program the desired chapters/tracks.

- For details on using the number buttons, see "How to use the number buttons". (See page 22.)
- The content's numbers that you have to specify for programming varies depending on the disc/file type:
- DVD VIDEO: Titles and chapters
- VCD, SVCD, CD: Tracks
- MP3, WMA: Groups and tracks
- You can specify the chapters/tracks whose number is up to 99
- There may be a case that the group or title number can be entered even for discs that contain no groups or titles. In such a case, press ENTER to proceed to the Track/Chapter column.
- When you press ENTER instead of the number buttons in the Track/Chapter column, "ALL" appears and all the tracks or chapters on the selected group or title are programmed as a step.

To clear the programs one by one from the last entered number

Press CANCEL repeatedly.

To clear all programs

Press ■.

You can also clear the program by turning off the system.

3 Press ► (play button).

If all of the programmed tracks/files have been played back, playback stops and the program window appears again. Note that program setting remains.

To check the program contents

During playback, press ■ . Playback stops and the program window appears.

To quit the Program mode

While stopped, press PLAY MODE repeatedly until both program window and RANDOM disappear from the TV screen.

- When the source is USB MEMORY, Program Playback does not work.
- · The Resume function cannot be used with Program Playback.
- DISC (1-5) on the remote control and DISC (1-5) ➤ on the center unit do not work during Program Playback.
- · Program Playback may not work for some discs.

Random Playback

You can play titles or tracks on a disc in random order.



■ While stopped

1 Press PLAY MODE repeatedly until

RND indicator lights on the display window.

2 Press \triangleright (play button).

 When more than one discs are loaded, the system starts Random Playback of the next disc after completing current disc playback.

To quit Random mode

While stopped, press PLAY MODE repeatedly until both program window and RANDOM disappear from the TV screen. You can also clear the Random mode by turning off the system.

NOTE

- When the source is USB MEMORY, Random Playback does not work
- The same title/track will not be played back more than once during Random Playback.

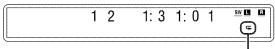
Repeat Playback

Repeating the current selection or all discs

- For DVD VIDEO: During playback
- For VCD/SVCD: During playback without PBC function or while stopped
- For CD/MP3/JPEG/ASF/MPEG-2/MPEG-1/ DivX: During playback or while stopped



When using the REPEAT button: **Press REPEAT.**



Repeat mode indicator

Each time you press REPEAT, the Repeat mode changes.

Display window	TV screen	Meanings
	☆ GROUP	Repeats the current group for MP3/WMA/JPEG/ASF/
U 	REPEAT GROUP	MPEG-2/MPEG-1/DivX.
	e me	Repeats the current title for DVD VIDEO.
	ථDISC	Repeats all titles and tracks on
₲ DISC	REPEAT DISC	the current disc for VCD/ SVCD/CD/MP3/WMA/JPEG/ ASF/MPEG-2/MPEG-1/DivX.
ALL	CALL	Repeats all the available discs/
ALL	REPEAT ALL	files.
	ರ TRACK , ರು STEP	Repeats the current track for
G 1	REPEAT TRACK, REPEAT STEP	VCD/SVCD/CD/MP3/WMA/ ASF/MPEG-2/MPEG-1/DivX.
	රාCHAP , රාSTEP	Repeats the current chapter for DVD VIDEO.
No indication	پ اندان کا در اور ک	Repeat mode is off. The system plays back the disc/file normally.

NOTE

- When DVD VIDEO is loaded in the system, playback of the disc next to the DVD VIDEO will not start, although CALL /REPEAT ALL on the TV screen or ALL in the display window is shown.
- For DVD VIDEO, REPEAT ALL and REPEAT DISC may not be available depending on the disc.

When using the on-screen bar (except for MP3/WMA/JPEG/ASF/MPEG-2/MPEG-1/DivX):

- 7 Press ON SCREEN twice.
 - The on-screen bar appears on the TV screen.
- $\mathbf{2}$ Press Cursor \blacktriangleright / \blacktriangleleft to highlight \spadesuit off.
- **3** Press ENTER.



- 4 Press Cursor ▼/▲ repeatedly to select the Repeat mode.
- 5 Press ENTER.
- 6 Press ON SCREEN.

The on-screen bar disappears.

To cancel Repeat Playback

Select "OFF" in step 4.

Repeating a desired part [A-B Repeat]

You can repeat playback of a desired part by specifying the beginning (point A) and ending (point B).



- During playback
- 1 Press ON SCREEN twice.

The on-screen bar appears on the TV screen.

- 3 Press ENTER.



- 4 Press Cursor ▼/▲ repeatedly to select "A-B".
- 5 Press ENTER at the beginning of the part you want to repeat (point A).



The repeat mode indicator "**←** A **–** " appears on the display window.

6 Press ENTER at the end of the part you want to repeat (point B).

The repeat mode indicator on the display window changes to "► A − B" and A-B Repeat Playback starts.

7 Press ON SCREEN.

The on-screen bar disappears.

To cancel

Select "OFF" in step 4, then press ENTER.

NOTE

- When playing back a DVD VIDEO, A-B Repeat Playback is possible only within the same title.
- When playing back a VCD, SVCD, or CD, A-B Repeat Playback is possible only within the same track.
- "A-B" cannot be selected during Program and Random Playback.
- "A-B" cannot be selected during playback with PBC function.

Tray lock

You can lock the tray and prohibit unwanted disc ejection.

On the center unit ONLY:

While the system is turned off



- Press and hold
- "LOCKED" appears on the display window.
- If you try to eject the disc, "LOCKED" appears to indicate that the tray is locked.

To cancel

Carry out the same operation again.

• "UNLOCKED" appears on the display window.

Sound and other settings

IMPORTANT

Before using the remote control for the following operation;

• Set the remote control mode selector to AUDIO.

AUDIO -

NOTE

- Before you start operation; There is a time limit when doing the following steps. If the setting is canceled before you finish, start from step 1 again.
- 1 Press SETTING.

Example:

BAL. CNTR

Press Cursor ▼/▲ to select the item you want to set.

• BAL. (Balance):

You can adjust the balance of the sound between "R (right) -21" and "L (left) -21". To set the balance to normal, select "CNTR (center)".

• MON. (Monitor Out):

Select the video output jack type by which you watch DVD playback after connecting your TV. (See page 12.) Set the video output to use AV COMPU LINK remote control system. (See page 38.)

VIDEO: To watch DVD playback via the VIDEO jack.
S: To watch DVD playback via the S-VIDEO jack.
COMP (Component):

To watch DVD playback via the COMPONENT VIDEO OUT jacks.

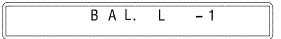
VIDEO OUT Jacks.

HDMI: To watch DVD playback via the HDMI

MONITOR OUT terminal.

When selecting this setting, AV COMPU LINK remote control system does not work.

Example:



The adjustment is set and the display automatically disappears a few seconds later.

Using the setup menus

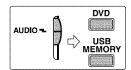
· You can change the language used in the setup menus. See "Menu description" below.

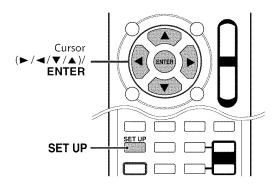
Basic operation on the setup menus

IMPORTANT

Before using the remote control for the following operation;

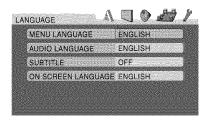
- Set the remote control mode selector to AUDIO.
- 2 Press DVD or USB MEMORY.





■ While stopped

Press SET UP.



Follow the instructions that appear on the TV screen.

Menu description



🚺 : Language menu (LANGUAGE)

■ MENU LANGUAGE

Some DVDs have their own menus in multiple languages.

• Select the initial language*.

■ AUDIO LANGUAGE

Some DVDs have multiple audio languages.

• Select the initial audio language*.

■ SUBTITLE

Some DVDs have multiple subtitle languages.

• Select the initial subtitle language*.

■ ON SCREEN LANGUAGE

- · Select the language shown on the TV screen when operating this system.
- * When the language you have selected is not recorded to a disc, the original language is automatically used as the initial language.

NOTE

• See the following "The language codes list" for the code of each language, such as "AA", etc.

The language codes list

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



: Picture menu (PICTURE)

■ MONITOR TYPE

You can select the monitor type to match your TV when you play DVDs recorded in the picture's height/width ratio of 16:9.

• 4:3 PS (Pan Scan conversion)

Select this when the aspect ratio of your TV is 4:3 (conventional TV). While viewing a wide screen picture, the black bars do not appear, however, the left and right edges of the pictures will not be shown on the screen.

• 4:3 LB (Letter Box conversion)

Select this when the aspect ratio of your TV is 4:3 (conventional TV). While viewing a wide screen picture, the black bars appear on the top and the bottom of the screen.

• 16:9 (Wide television conversion)

Select this when the aspect ratio of your TV is fixed on 16:9 (wide TV).

When you play DVDs recorded in the picture's height/width ratio of 4:3, the system adjust the ratio of output signal automatically.







Ex.: 4:3 PS

Ex.: 4:3 L

NOTE

• Even if "4:3 PS" is selected, the screen size may become "4:3 LB" with some DVDs. This depends on how DVDs are recorded.

■ PICTURE SOURCE

When you set the scan mode to "480p" or "720p" (see page 18), you can obtain optimal picture quality by selecting whether the content on the disc/file is processed by frame (film source) or by field (video source).

Normally set to "AUTO".

• AUTO

Used to play a disc/file containing both video and film source materials.

This system recognizes the source type (video or film) of the current disc/file according to the disc/file information. If the playback picture is unclear or noisy, or the oblique lines of the picture are rough, try to change to other modes.

• FILM

Suitable for playing back a film source disc/file.

VIDEO (NORMAL)

Suitable for playing back a video source disc/file with relatively a few movements.

VIDEO (ACTIVE)

Suitable for playing back a video source disc/file with relatively a lot of movements.

■ SCREEN SAVER (See page 21.)

You can activate or deactivate screen saver function.

■ FILE TYPE

When several types of files are recorded on a disc/device, you can select which files to play.

AUDIO

Select this to play MP3/WMA files.

STILL PICTURE

Select this to play JPEG files.

VIDEO

Select this to play ASF/MPEG-2/MPEG-1/DivX files.

■ HDMI DVI COLOR

When connecting the TV by using HDMI cable, you can adjust the picture appearance, such as image quality, color intensity, and black fading

STANDARD

Select this when you need no picture adjustment.

ENHANCE

This system automatically makes picture adjustment suitable for the picture.

■ HDMI OUT

When connecting the TV by using HDMI cable, you can select the type of video signal output from HDMI MONITOR OUT terminal. Normally set to "AUTO".

AUTO

This system automatically select the video signal type and outputs according to the type of TV connected with HDMI cable.

RGB

Select this when no picture appears on the TV with "AUTO" setting. The video signal output is fixed to RGB.



: Audio menu (AUDIO)

■ D. RANGE CONTROL

(Dynamic range control)

You can enjoy low level recorded sound clearly at night even at a low volume when listening to the sound with Dolby Digital.

WIDE RANGE

Select this when you want to enjoy surround sound with its full dynamic range (no effect applied).

NORMAL

Normally select this to activate this function.

TV MODE

Select this when you want to fully apply the compression effect (useful at midnight).

NOTE

 When you play a multichannel Dolby Digital source with the surround mode is off, the setting of D. RANGE CONTROL is set to NORMAL automatically.

■ HDMI AUDIO OUT

You can select whether the system outputs the audio signal with the video signal from HDMI MONITOR OUT terminal or not.



: Speaker setting menu (SPK. SETTING)

■ Level menu (LEVEL)

FRONT LEFT SPEAKER/FRONT RIGHT SPEAKER/CENTER SPEAKER/SURROUND RIGHT SPEAKER/SURROUND LEFT SPEAKER

While monitoring the test tone, adjust the center and surround speakers volume as much as that of the front speakers. You can adjust the output level in the -6 dB to +6 dB range.

TEST TONE*

Outputs the test tone.

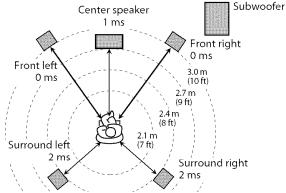
- * The test tone comes out of all of the activated speakers in the following sequence:
 - ⇒ Front left speaker ⇒ Center speaker ⇒ Front right speaker ⇒ Surround right speaker ⇒ Surround left speaker ⇒ (back to the beginning)

NOTE

· Adjustment of subwoofer output level is not available.

■ Delay menu (DELAY)

Example:



1 ms increase (or decrease) in delay time corresponds to about 30 cm (1 ft) decrease (or increase) in distance.

Set to "0 ms" for the furthest speaker from your position as the basis for the delay time setting.

In this case, set the delay time of each speaker as follows;

- Delay time of front speakers: 0 ms
- Delay time of center speaker: 1 ms
- Delay time of surround speakers: 2 ms

FRONT LEFT SPEAKER/FRONT RIGHT SPEAKER/CENTER SPEAKER/SURROUND RIGHT SPEAKER/SURROUND LEFT SPEAKER

Adjust the distance from the listening position to the speakers. Within the range from 0 ms to 15 ms (by 1 ms).

■ Subwoofer menu (SUBWOOFER)

LEVEL

You can set the output level of the subwoofer in the -6 dB to +6 dB range.

CROSS OVER

The signals below the preset frequency level will be sent to and be reproduced by the subwoofer.

Select one of the crossover frequency levels according to the size of the small speaker connected.

- **120Hz**: Select when the cone speaker unit built in the speaker is about 8 cm (3-3/16 inches).
- **150Hz**: Select when the cone speaker unit built in the speaker is about 6 cm (2-3/8 inches).
- 200Hz: Select when the cone speaker unit built in the speaker is about 5 cm (2 inches).



: Other setting menu (OTHERS)

■ RESUME

You can activate or deactivate Resume Playback function. (See page 28.)

■ ON SCREEN GUIDE

You can activate or deactivate the on-screen guide icons. (See page 20.)

■ DivX registration menu (DivX REGISTRATION)

The system has its own Registration Code for DivX playback. You can confirm the code of your system.

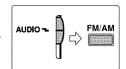
 Once you play back a disc created by using the Registration Code, the system's code is overwritten by a totally different new one for copyright protection purpose.

Tuner operations

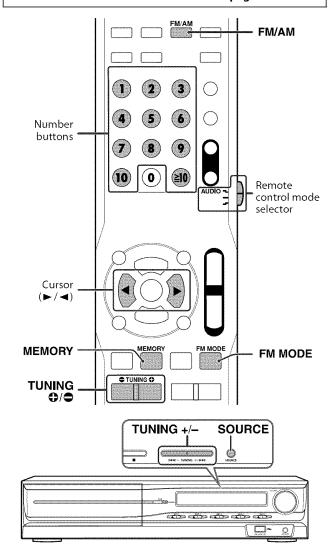
IMPORTANT

Before using the remote control for the following operation;

- 1 Set the remote control mode selector to AUDIO.
- 2 Press FM/AM.



The buttons described below are used on pages 36 and 37.



Manual tuning

On the remote control:

1 Press FM/AM repeatedly to select the band.

Example:

When the system is tuned in to 810 kHz.



2 Press TUNING ⊕/⊕ repeatedly until you find the frequency you want.

When you hold down the button until the system starts searching for stations and then release it, the system stops searching automatically when a station of sufficient signal strength is tuned in to.

On the center unit:

- 1 Press SOURCE repeatedly to select the band (FM or AM).
- Press TUNING +/- repeatedly until you find the frequency you want.

NOTE

 When an FM stereo program is received, the ST indicator lights on the display window.

Preset tuning

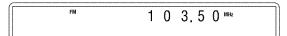
Once a station is assigned to a channel number, the station can be quickly tuned in. You can preset 30 FM and 15 AM stations.

■ To preset the stations

1 Tune in the station you want to preset.

• If you want to store the FM reception mode for an FM station, select the reception mode you want. See "Selecting the FM reception mode" on the right column.

Example: When the system is tuned in to 103.5 MHz.



2 Press MEMORY.

While "CH" and "__" are flashing:

3 Press number button(s) (1-10, ≥10) to select a preset number you want.

• For details on using the number buttons, see "How to use the number buttons" (See page 22.)

Example: When the preset channel 1 is selected.



If the setting is canceled before you finish, start from step 2 again.

While the selected number is flashing:

4 Press MEMORY.

"STORED" appears on the display window. The station is assigned to the selected preset number. If the setting is canceled before you finish, start from step 2 again.

5 Repeat steps 1 to 4.

- Storing a new station to a used number erases the previously stored one.
- To tune in to a preset station
- 7 Press FM/AM repeatedly to select FM or AM.

2 Press number button(s) (1-10, ≥10) to select a preset number.

• For details on using the number buttons, see "How to use the number buttons" (See page 22.)

NOTE

You can also select a preset number by pressing Cursor ►/◄.

Selecting the FM reception mode

When the stereo FM program currently tuned in is noisy, you can change the FM reception mode to improve the reception.

■ While listening to an FM station

Press FM MODE.

The FM reception mode appears on the display window. Each time you press the button, the FM reception mode changes.

AUTO:

When a program is broadcast in stereo, you will hear stereo sound. (The ST indicator lights on the display window.) When in monaural, you will hear monaural sound. This mode is also useful to suppress static noise between stations.

• MONO:

Reception will be improved although you will lose the stereo effect. (The MONO indicator lights on the display window.) In this mode, you will hear noise until you are tuned in to a station.

Reducing the noise of AM broadcast

When listening to an AM broadcast with a lot of noise interference, you can change the Beat Cut mode to reduce the noise.

■ While listening to an AM station

Press FM MODE.

The current Beat Cut mode appears on the display window. Each time you press the button, the Beat Cut mode changes.

 Choose "BEATCUT1" or "BEATCUT2" according to which gives clearer sound

AV COMPU LINK remote control system

The AV COMPU LINK remote control system allows you to operate

AV COMPU LINK

JVC TVs and VCRs through the center unit. This system is equipped with the AV COMPU LINK-III, which adds a function to operate JVC's video components via the video components terminals. To use this remote control system, you need to connect the video components you want to operate as follows.

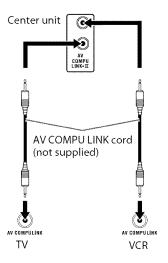
- Refer also to the manuals supplied with your TV and video components.
- When connecting your TV to this system by using HDMI cable, you cannot use the AV COMPU LINK remote control system.

Connecting a TV and VCR

CAUTION

Before connecting;

- If you have already plugged your VCR, TV and the center unit into the AC outlets, unplug their AC power cords first.
- 1 Connect the center unit to a TV and VCR
 - For details, see pages 12 and 13.
- 2 Connect the center unit to a TV and VCR using the optional AV COMPU LINK cords.



- 3 Plug the AC power cords of the VCR, TV and the center unit into the AC outlets.
- 4 Turn on the connected components first, then turn on the center unit.
 - When turning on the TV for the first time after the AV COMPU LINK connection, turn the TV volume to minimum using the TV volume control on the TV.
 - When turning on the VCR, use the remote control supplied with this system. (Press O/I VCR/DBS.)

NOTE

• To correctly use the automatic selection of TV input mode, select the correct "MON." (Monitor Out) setting. (See page 32.)

Available functions

The AV COMPU LINK remote control system allows you to use the functions listed following.

One-touch video play

Simply by inserting a video cassette without its safety tab into the VCR, you can enjoy video playback without manually setting other switches. This system automatically turns on and changes the source to VCR.

The TV automatically turns on and changes the input mode to the appropriate position so that you can view the playback picture. When you insert a video cassette with its safety tab in place, press the play (\triangleright) button on the VCR or on the remote control to get the same result.

One-touch DVD play

Simply by starting playback on the built-in DVD player, you can enjoy playback without manually setting other switches. The TV automatically turns on and changes the input mode to the appropriate position so that you can view the playback picture.

Automatic selection of TV input mode

When you select DVD or VCR as the source to play on the system, the TV automatically changes the input mode to the appropriate position so that you can view the playback picture.

Automatic Power On/Off

The TV and VCR turn on and off along with the system. When you turn on the system;

- If the previously selected source is "DVD", only the TV will turn on automatically.
- If the previously selected source is "VCR", the TV and VCR will turn on automatically.

When you turn off the system, the TV and VCR will turn off.

NOTE

If you turn off the system while recording on the VCR, the VCR will not turn off and will continue recording.

Maintenance

■ Handling Discs

- Remove the disc from its case by holding it at the edge while pressing the center hole lightly.
- Do not touch the shiny surface of the disc or bend the disc.
- Put the disc back in its case after use to prevent warping.
- Be careful not to scratch the surface of the disc when placing it back in its case.
- Avoid exposure to direct sunlight, extreme temperature and moisture.



To clean the disc

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

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



■ Cleaning the system

- Stains on the system should be wiped off with a soft cloth. If the system is heavily stained, wipe it with a cloth soaked in waterdiluted neutral detergent and wrung well, then wipe clean with a dry cloth.
- Since the system may deteriorate in quality, become damaged or get its paint peeled off, be careful about the following.
 - -DO NOT wipe it with a hard cloth.
 - -DO NOT wipe it forcefully.
 - DO NOT wipe it with thinner or benzine.
 - DO NOT apply any volatile substance such as insecticides to it.
 - -DO NOT allow any rubber or plastic to remain in contact with it for a long time.

Troubleshooting

PROBLEM	POSSIBLE CAUSE	SOLUTION	
Power does not come on.	The power cord and/or system cord is not connected.	Connect the power cord and system cord correctly. (See page 13.)	
The remote control does	The batteries are exhausted.	Replace the batteries. (See page 7.)	
not work.	Sunlight is shining directly on the remote sensor.	Hide the remote sensor from direct sunlight.	
No sound.	The system cord and/or speaker cord is not connected.	Check the connection.	
	The audio cord is not connected to AUX IN (VCR) and/or DIGITAL IN (DBS) correctly.	Connect the cord correctly. (See page 13.)	
	An incorrect source has been selected.	Select the correct source. (See page 17.)	
No picture is displayed	The video cord is not connected correctly.	Connect the cord correctly. (See page 12.)	
on the TV screen.	The disc or file is not playable.	Use a playable disc or file. (See pages 3 and 4.)	
No picture is displayed on the TV screen, the picture is blurred, or the picture is divided into two parts.	The scan mode is set to "480p" though the center unit is connected to the TV which does not support the progressive video input such as a conventional TV.	Change the scan mode to "480i". (See page 18.)	
Video and audio are	The disc is scratched or dirty.	Replace or clean the disc.	
distorted.	A VCR is connected between the center unit and the TV.	Connect the center unit and TV directly. (See page 12.)	
The picture does not fit the TV screen.	The monitor type is not set correctly.	Set "MONITOR TYPE" properly. (See page 34.)	
No picture is displayed on the TV or no sound	A video or audio format not compatible with this system and/or TV is played.	Check the video or audio format of the signal to see if it is compatible with this system and/or TV.	
come out through HDMI connection.	A HDCP-compatible TV is not connected.	Connect a HDCP-compatible TV. (See page 12.)	
HDWI connection.	The system failed to recognize the TV connected with the HDMI cable.	Disconnect the HDMI cable and connect it again.	
	A HDMI cable longer than 5 m (15 ft) is used.	Use a HDMI cable shorter than 5 m (15 ft) to assure stable operation and picture quality.	
The broadcast is hard to hear because of noise.	Antennas are disconnected.	Reconnect the antennas correctly and securely. (See page 8.)	

Specifications

■ Center unit (XV-THC60/XV-THC50/XV-THC40)

Audio section

Digital input*1:

DIGITAL IN (DBS): -21 dBm to -15 dBm (OPTICAL) (660 nm ±30 nm)

*1 Corresponding to Linear PCM, Dolby Digital, and DTS Digital Surround (with sampling frequency — 32 kHz, 44.1 kHz,

48 kHz)

Video section

Video System: NTSC Horizontal Resolution: 500 lines Signal-to-Noise Ratio: 64 dB

Video output level

Composite: 1.0 V(p-p)/75 Ω S-video-Y: $1.0 \text{ V}(p-p)/75 \Omega$ $0.286\, V(p\text{-}p)/75\, \Omega$ S-video-C: Component-Y: 1.0 V(p-p)/75 Ω Component-PB/PR: $0.7 \text{ V}(p-p)/75 \Omega$ Video input sensitivity/Impedance (VCR IN) $1.0~V(p\text{-}p)/75~\Omega$ Composite: S-video-Y: $1.0 \text{ V}(\text{p-p})/75 \Omega$ S-video-C: $0.286 \text{ V}(p-p)/75 \Omega$

HDMI

HDMI Output (Ver. 1.0): MONITOR OUT

USB storage

USB specification: Compatible with the USB 2.0 Full-

Speed

Compatible device: Mass Storage Class
Compatible file system: FAT16, FAT32
Bus power supply: Max. 500 mA

Tuner section

Tuning Range

FM: 87.5 MHz to 108.0 MHz AM: 530 kHz to 1 710 kHz

General

Mass:

Power Requirements: AC 120 V \sim , 60 Hz Power Consumption: 25 W (at operation) 0.6 W (in standby mode)

Dimensions (W \times H \times D):

400 mm × 85 mm × 316 mm (15-3/4 inches × 3-3/8 inches ×

12-1/2 inches) 3.8 kg (8.4 lbs) ■ Subwoofer (SP-PWC60/SP-PWC50)

Amplifier section

Front/Center/Surround: 200 W per channel, RMS at 3 Ω at

1 kHz, with 10 % total harmonic

distortion.

Subwoofer: 200 W, RMS at 3 Ω at 100 Hz, with

10 % total harmonic distortion.

Speaker section

Speaker unit: 16 cm (6-5/16 inches) Bass-reflex

Power Handling Capacity: 200 W Impedance: 3 Ω

Frequency Range: 30 Hz to 200 Hz Sound Pressure Level: 74 dB/W·m

General

Power Requirements: AC 120 V ∼, 60 Hz
Power Consumption: 180 W (at operation)

0 W (in standby mode)

Dimensions (W \times H \times D):

171 mm × 411 mm × 458 mm (6-3/4 inches × 16-3/16 inches × 18-

1/16 inches)

Mass: 12.3 kg (27.2 lbs)

■ Subwoofer (SP-PWC40)

Amplifier section

Front/Center/Surround: 167 W per channel, RMS at 3 Ω at

1 kHz, with 10 % total harmonic

distortion.

Subwoofer: 167 W, RMS at 3 Ω at 100 Hz, with

10 % total harmonic distortion.

Speaker section

Speaker unit: 16 cm (6-5/16 inches) Bass-reflex

Power Handling Capacity: 170 W Impedance: 3 Ω

Frequency Range: 30 Hz to 200 Hz Sound Pressure Level: 73 dB/W·m

General

Power Requirements: AC 120 V \sim , 60 Hz Power Consumption: 160 W (at operation)

0 W (in standby mode)

Dimensions (W \times H \times D):

170 mm × 411 mm × 458 mm (6-3/4 inches × 16-3/16 inches × 18-

1/16 inches)

Mass: 11.5 kg (25.4 lbs)

■ Satellite Speakers — SP-XTHC60

Front speakers (SP-THC60F)

Type: 1-way 2-speaker Bass reflex type

(Magnetically shielded Type)

Speaker: $5.5 \text{ cm} (2-3/16 \text{ inches}) \text{ cone } \times 2$

Power Handling Capacity: 200 WImpedance: 3Ω

Frequency Range: 100 Hz to 20 000 Hz

Sound Pressure Level: 78 dB/W·m

Dimensions (W \times H \times D):

280 mm × 1 106 mm × 280 mm

(11-1/16 inches \times 43-9/16 inches \times

11-1/16 inches)

Mass: 3.3 kg (7.3 lbs) each

Center speaker (SP-THC60C)

Type: 1-way 2-speaker Bass reflex type (Magnetically shielded Type)

Speaker: $6.5 \text{ cm } (2-9/16 \text{ inches}) \text{ cone } \times 2$

Power Handling Capacity: 200 W Impedance: 3 Ω

Frequency Range: 90 Hz to 20 000 Hz

Sound Pressure Level: 81 dB/W·m

Dimensions (W \times H \times D):

Mass:

250 mm × 85 mm × 91 mm

 $(9-7/8 \text{ inches} \times 3-3/8 \text{ inches} \times 3-5/8$

8 inches) 0.8 kg (1.8 lbs)

Surround speakers (SP-THC60S)

Type: 2-way 3-speaker Bass reflex type Speaker: 5.5 cm (2-3/16 inches) cone X 2

 $3.0 \text{ cm} (1-3/16 \text{ inches}) \text{ dome} \times 1$

Power Handling Capacity: 200 W Impedance: 3 Ω

Frequency Range: 100 Hz to 20 000 Hz

Sound Pressure Level: 78 dB/W·m

Dimensions (W \times H \times D):

280 mm × 1 114 mm × 280 mm (11-1/16 inches × 43-7/8 inches ×

11-1/16 inches)

Mass: 3.4 kg (7.5 lbs) each

Speaker:

■ Satellite Speakers — SP-XTHC50

Front speakers (SP-THC60F)

Type: 1-way 2-speaker Bass reflex type

(Magnetically shielded Type) 5.5 cm (2-3/16 inches) cone × 2

Power Handling Capacity: 200 W Impedance: 3Ω

Frequency Range: 100 Hz to 20 000 Hz

Sound Pressure Level: 78 dB/W·m

Dimensions (W \times H \times D):

 $280 \text{ mm} \times 1106 \text{ mm} \times 280 \text{ mm}$

(11-1/16 inches \times 43-9/16 inches \times

11-1/16 inches)

Mass: 3.3 kg (7.3 lbs) each

Center speaker (SP-THC60C)

Type: 1-way 2-speaker Bass reflex type (Magnetically shielded Type)

Speaker: $6.5 \text{ cm } (2-9/16 \text{ inches}) \text{ cone } \times 2$

Power Handling Capacity: 200 W Impedance: 3 Ω

Frequency Range: 90 Hz to 20 000 Hz

Sound Pressure Level: 81 dB/W·m

Dimensions (W \times H \times D):

Mass:

 $250 \text{ mm} \times 85 \text{ mm} \times 91 \text{ mm}$

 $(9-7/8 \text{ inches} \times 3-3/8 \text{ inches} \times 3-5/$

8 inches) 0.8 kg (1.8 lbs)

Surround speakers (SP-THC50S)

Type: 1-way Bass reflex type

Speaker: $8.0 \text{ cm} (3-3/16 \text{ inches}) \text{ cone} \times 1$

Power Handling Capacity: 200 W Impedance: 3Ω

Frequency Range: 80 Hz to 20 000 Hz

Sound Pressure Level: 70 dB/W·m

Dimensions (W \times H \times D):

 $111.5 \text{ mm} \times 148 \text{ mm} \times 106.5 \text{ mm}$

(4-7/16 inches \times 5-7/8 inches \times 4-1/

4 inches)

Mass: 0.44 kg (0.98 lbs) each

■ Satellite Speakers — SP-XTHC40

Front speakers (SP-THC40F)

Type: 2-way 2-speaker Bass reflex type

(Magnetically shielded Type)

Speaker: $8.0 \text{ cm } (3-3/16 \text{ inches}) \text{ cone } \times 1$

 $1.5 \text{ cm} (5/8 \text{ inches}) \text{ dome} \times 1$

Power Handling Capacity: 170 W Impedance: 3 Ω

Frequency Range: 80 Hz to 20 000 Hz

Sound Pressure Level: 77 dB/W·m

Dimensions (W \times H \times D):

104.5 mm × 139 mm × 101 mm (4-1/8 inches × 5-1/2 inches ×

4 inches)

Mass: 0.56 kg (1.3 lbs) each

Center speaker (SP-THC40C)

Type: 2-way 2-speaker Bass reflex type

(Magnetically shielded Type)

Speaker: $8.0 \text{ cm} (3-3/16 \text{ inches}) \text{ cone} \times 1$

1.5 cm (5/8 inches) dome × 1

Power Handling Capacity: 170 W Impedance: 3 Ω

Frequency Range: 80 Hz to 20 000 Hz

Sound Pressure Level: 77 dB/W·m

Dimensions (W \times H \times D):

137 mm × 105 mm × 104.5 mm

 $(5-7/16 \text{ inches} \times 4-3/16 \text{ inches} \times 4-1/8 \text{ inches})$

Mass: 0.57 kg (1.3 lbs)

Surround speakers (SP-THC40S)

Type: 1-way Bass reflex type

Speaker: $8.0 \text{ cm} (3-3/16 \text{ inches}) \text{ cone} \times 1$

Power Handling Capacity: 170 W Impedance: 3 Ω

Frequency Range: 80 Hz to 20 000 Hz

Sound Pressure Level: 70 dB/W⋅m

Dimensions (W \times H \times D):

 $111.5\,\mathrm{mm}\times148\,\mathrm{mm}\times106.5\,\mathrm{mm}$

 $(4-7/16 \text{ inches} \times 5-7/8 \text{ inches} \times 4-1/$

4 inches)

Mass: 0.56 kg (1.3 lbs) each

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LIMITED WARRANTY

USA ONLY

ONLY FOR PRODUCT PURCHASED IN U.S.A.

CONSUMER VIDEO 1-90

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

PARTS	_	LABOR	
	1 YR		90 days

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

WHAT WE WILL DO:

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

WHAT YOU MUST DO FOR WARRANTY SERVICE:

Please do not return your product to the retailer Instead, return your product to the JVC authorized service center nearest you. If shipping the product to the service center, please be sure to package it carefully, preferably in the original packaging, and include a brief description of the problem(s). Please call 1-800-252-5722 to locate the nearest JVC authorized service center. Service locations can also be obtained from our website http://www.jvc.com. If your product qualifies for in-home service, the service representative will require clear access to the product.

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

WHAT IS NOT COVERED:

This limited warranty provided by JVC does not cover:

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

There are no express warranties except as listed above.

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

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

JVC COMPANY OF AMERICA

DIVISION OF JVC AMERICAS CORP.

1700 Valley Road Wavne, NJ 07470

http://www.jvc.com **********************

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

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

TO OUR VALUED CUSTOMER -

THANK YOU FOR PURCHASING THIS JVC PRODUCT.
WE WANT TO HELP YOU ACHIEVE A PERFECT EXPERIENCE.

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

JVC IS HERE TO HELP! TOLL FREE: 1(800)252-5722 http://www.jvc.com

Remember to retain your Bill of Sale for Warranty Service.		
—— г	Oo not attempt to service the product yourself —————	
T T	Caution o prevent electrical shock, do not open the cabinet. here are no user serviceable parts inside. lease refer to qualified service personnel for repairs.	

BT-51005-9 (0904)

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