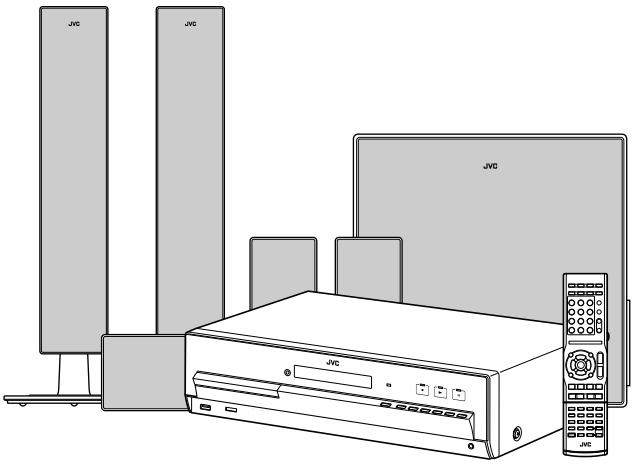
JVC

DVD DIGITAL THEATER SYSTEM

TH-D60

Consists of XV-THD60, SP-THD6W, SP-THD6F, SP-THD6C and SP-THD6S

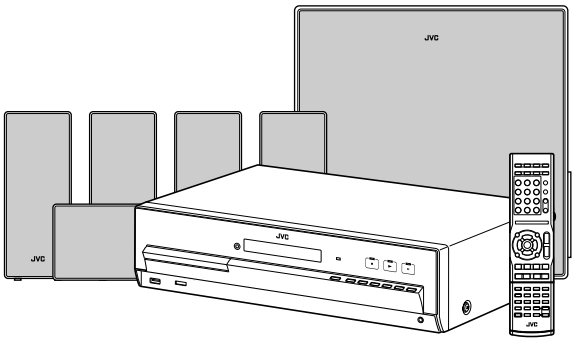


TH-D50

Consists of XV-THD50, SP-THD5W, SP-THD5F, SP-THD5C and SP-THD5S

TH-D5

Consists of XV-THD5, SP-THD5W, SP-THD5F, SP-THD5C and SP-THD5S



TH-D4

Consists of XV-THD4, SP-THD5W, SP-THD5F, SP-THD5C and SP-THD5S

DVD AUDIO/VIDEO™ COMPACT disc SUPER VIDEO dts™ Digital Surround DOLBY DIGITAL PRO LOGIC II DivX® DivX® ULTRA

HDMI ((XM)) READY (TH-D60 only) Made for iPod MPEG-4 ASF PLAYBACK *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. _____

LVT1704-001B
[J,C]

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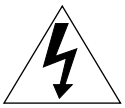
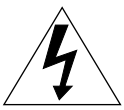


The lightning flash with arrowhead symbol, within an equilateral triangle is intended to alert the user to the presence of uninsulated "dangerous voltage" within the product's enclosure that may be of sufficient magnitude to constitute a risk of electric shock to persons.

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.



Le symbole de l'éclair à l'intérieur d'un triangle équilatéral est destiné à alerter l'utilisateur sur la présence d'une "tension dangereuse" non isolée dans le boîtier du produit. Cette tension est suffisante pour provoquer l'électrocution de personnes.

Le point d'exclamation à l'intérieur d'un triangle équilatéral est destiné à alerter l'utilisateur sur la présence d'opérations d'entretien importantes au sujet desquelles des renseignements se trouvent dans le manuel d'instructions.

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

CAUTION — ⏻/I button!

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

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

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

The power can be remote controlled.

ATTENTION — Touche ⏻/I

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

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

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

L'alimentation peut être télécommandée.

CAUTION

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

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

ATTENTION

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

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

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.

[European Union only]
[Union européenne seulement]

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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.

CAUTION

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

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:

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

ATTENTION:

Une pression acoustique excessive des écouteurs ou du casque d'écoute peut entraîner une perte auditive.

IMPORTANT FOR LASER PRODUCTS

1. CLASS 1 LASER PRODUCT
2. **CAUTION:** Do not open the top cover or cabinet. There are no user serviceable parts inside the unit; leave all servicing to qualified service personnel.
3. **CAUTION:**
   (For U.S.A.) Visible and/or invisible class II laser radiation when open. Do not stare into beam.
   (For Canada) Visible and/or invisible class 1M laser radiation when open. Do not view directly with optical instruments.
4. REPRODUCTION OF LABEL: CAUTION LABEL, PLACED INSIDE THE UNIT.

IMPORTANT POUR PRODUITS LASER

1. PRODUIT LASER CLASSE 1
2. **ATTENTION:** N'ouvrez pas le couvercle supérieur ni le coffret de l'appareil. Il n'y a aucune pièce réparable par l'utilisateur à l'intérieur de l'appareil; confiez toute réparation à un personnel qualifié.
3. **ATTENTION:**
   (Pour les Etats-Unis) Radiation laser de classe II visibles et/ou invisible si l'appareil est ouvert. Ne regardez pas le rayon.
   (Pour le Canada) Rayonnement laser visible et/ou invisible de classe 1M une fois ouvert. Ne pas regarder directement avec des instruments optiques.
4. REPRODUCTION DE L'ÉTIQUETTE: ÉTIQUETTE DE PRÉCAUTION PLACÉE À L'INTERIEUR DE L'APPAREIL.

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

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-D60: 30.7 kg/68 lbs
TH-D50/TH-D5/TH-D4: 23.7 kg/53 lbs

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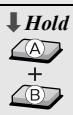
How to read this manual

- Illustrations and button names of the TH-D60 are mainly used for explanation.
- The following icons and illustrations are used to make the explanations simple and easy-to-understand.

Icons for System operations	
	Operations from the center unit
	Operations from the remote control
	The function can be operated from the on-screen bar (☞ 21).
Icons for the references and notes	
	Reference page for the function/ operation
	Caution for the function/operation
	Note for the function/operation
	Tip for the function/operation
Icons for operating information	
	The function is available while playing.
	The function is available while paused.
	The function is available while stopped.
	There is a time limit on performing the target operation.
Illustrations for button operations	
	Press the button briefly.
	Press the button repeatedly.
	Press and hold the button.
	Press button Ⓐ, then press button Ⓑ.
	Press button Ⓑ while holding button Ⓐ.

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Before using this System

Precautions

There are no user-serviceable parts inside. If anything goes wrong, unplug the power cord and consult your dealer.

Notes on installing the System

- Select a location which is level, dry and neither too hot nor too cold between 5°C and 35°C (41°F and 95°F).
- Do not install the System in a location subject to vibrations.
- Do not put heavy objects on the System.

Avoid moisture, water, dust, and high temperatures

- Do not install the System in moist or dusty locations.
- If water gets inside the System, turn off the power and remove the plug from the wall outlet, then consult your dealer. Using the System in this state may cause a fire or electrical shock.
- Do not expose the System to direct sunlight or place it near a heating device.

To prevent malfunctions or damage to the System

- Do not insert any metallic objects, such as wires, hairpins, coins, etc. into the System.
- Do not block the vents.

Notes on the power cord

- When you are away on travel or otherwise for an extended period of time, remove the plug from the wall outlet. A small amount of power is always consumed while the power cord is connected to the wall outlet.
- When unplugging the System from the wall outlet, always pull the plug, not the power cord.
- Disconnect the power cord before cleaning or moving the System.
- Do not modify, twist or pull the power cord, or put anything heavy on it. Doing so may cause fire, electric shock, or other accidents.

About copyright laws

Observe the copyright laws in your country before recording from original sources. Recording of copyrighted material may infringe copyright laws.

About the copyguard system

The discs are protected by the copyguard system. When connecting the System to a TV via a VCR, or to a TV with a built-in VCR, the copyguard system activates and distortion of the picture may occur.

Notes on installing and using the speakers

- Place the speakers and subwoofer on a flat and level surface.
- The speakers are magnetically shielded to avoid color distortions on TVs. If the color on a TV is distorted, perform the following procedure:
  – 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 procedure. If this happens, move the speakers away from the TV.
- The subwoofer is not magnetically shielded. To avoid color distortion, do not place it near the TV or monitor.
- When moving the speakers and subwoofer, do not pull the speaker cords. Doing so may cause the speakers and/or subwoofer to fall over, causing damage or injury.
- When installing the speakers on a wall, be sure to have them installed by qualified personnel. DO NOT install the speakers on a wall by yourself.
- Do not lean against the speakers, as they could fall down or break, possibly causing an injury. Be especially careful that children do not lean against them.

About the adjustment of volume

Always set the volume to the 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.

To clean the System

- Use a soft cloth. Follow the relevant instructions on the use of chemically-coated cloths.
- If the System is heavily stained, apply a small amount of water or neutral detergent to the cloth and wipe clean, then wipe with a dry cloth.
- Do not use benzene, thinner or other organic solvents and disinfectants. These may cause deformation or discoloring.

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Playable discs/devices/files

- Some discs/files may require operations that differ from those explained in this manual.
- Some discs/devices/files may not be recognized or played back correctly due to their characteristics.

Playable disc types

Type of disc	Types of media
DVD Video	• Discs on the market • DVD-R/-R DL/-RW • +R/+RW • DualDisc* (DVD side only)
DVD Audio	• Discs on the market • DVD-R/-R DL/-RW • +R/+RW
Super Video CD (SVCD)/Video CD (VCD)	• Discs on the market • CD-R/-RW
Audio CD	• Discs on the market • CD Text (Audio part only) • CD-R/-RW
A disc recorded in the DVD VR format	• DVD-R/-RW
Audio/video files on a disc (☞ 4)	• DVD-R/-R DL/-RW in UDF Bridge format • CD-R/-RW in ISO 9660 format

- This System accommodates the NTSC system, and also can play discs/files recorded with PAL system. Note that an PAL video signal on a disc/file is converted to the NTSC signal and output.
- 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.
- DVD-R/-RW: This System does not support "multi-border" discs.
- CD-R/-RW:
  – This System supports "multi-session" discs (up to 20 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 "1."

Ex.:

Unplayable discs—unwarranted

Playing back the following discs generates noise and damages the speakers.

- DVD-ROM, DVD-RAM, DualDisc* (non-DVD side)
- CD-ROM, CD-I (CD-I Ready), Photo CD, SACD
- Unfinalized discs (except DVD VR)
- Discs with an irregular shape or discs with tape, stickers or paste on either the label side or playback side
- Warped, dirty, or scratched discs

* ***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.***

Playable digital devices

JVC bears no responsibility for any loss of data in an iPod and/or USB mass storage class device while using this System.

iPod

iPod model	AUDIO	VIDEO
iPod nano 1GB/2GB/4GB	√	
iPod nano (2nd Generation) 2GB/4GB/8GB	√	
iPod mini 4GB/6GB	√	
iPod (4th Generation) 20GB/40GB	√	
iPod photo (4th Generation) 20GB/30GB/40GB/60GB	√	√ *
iPod video (5th Generation) 30GB/60GB/80GB	√	√

* *Only still pictures are available.*

- If the iPod does not play correctly, update your iPod software to the latest version. For details about updating your iPod, check on the Apple web site <http://www.apple.com>.

USB mass storage class device

A USB flash memory device, hard disk drive, multimedia card reader, digital camera, etc. can be used with this System through a USB connection.

- This System is compatible with USB 2.0 Full-Speed.
- This System cannot recognize a USB mass storage class device whose rating exceeds 5 V/500 mA.

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Playable file types

The following files in a disc or a USB mass storage class device can be played back.

Type of file	Playable files	Extensions
Audio	MP3	<.mp3>
	WMA	<.wma>
	WAV	<.wav>
Picture	JPEG	<.jpg>, <.jpeg>
Movie	ASF	<.asf>
	MPEG-1	<.mpg>, <.mpeg>
	MPEG-2	<.mpg>, <.mpeg>, <.mod>
	DivX (6.x, 5.x, 4.x and 3.11)	<.divx>, <.div>, <.avi>

- If a file on a USB mass storage class device exceeds the following conditions, it may not be played back correctly:
  – Maximum data transfer rate: 2 Mbps
  – Maximum frame rate: 30 fps for progressive
  – Maximum file size: 2 GB
- The System recognizes up to 150 tracks (files) per group, and 99 groups per disc/device. The total number of tracks (files) that the System can detect is 4000.

Information about the recording conditions for the files on a disc/ device

MP3/WMA files

- The System supports MP3/WMA files recorded at 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.
- It is recommended to record each file at a sample rate of 44.1 kHz and at a data transfer rate of 128 (96*) kbps.

* *For WMA only*

WAV files

- The System supports WAV files recorded at a quantization rate of 8 or 16 bit and a sampling frequency of 8 kHz, 11.025 kHz, 12 kHz, 16 kHz, 22.05 kHz, 24 kHz, 32 kHz, 44.1 kHz, or 48 kHz.
- It is recommended to record each file at a sample rate of 44.1 kHz and at a quantization rate of 16 bit Linear PCM.

JPEG files

- It is recommended 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.

ASF files

- 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

MPEG1/MPEG2 files

- The stream format should conform to the 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 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.

DivX files

- 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).
- Files encoded in the interlaced scanning mode may not be played back correctly.

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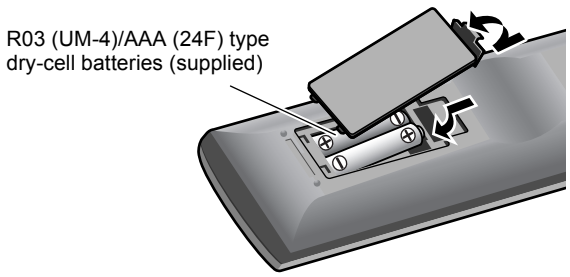
Getting started

Checking the supplied accessories

If anything is missing, contact your dealer immediately.

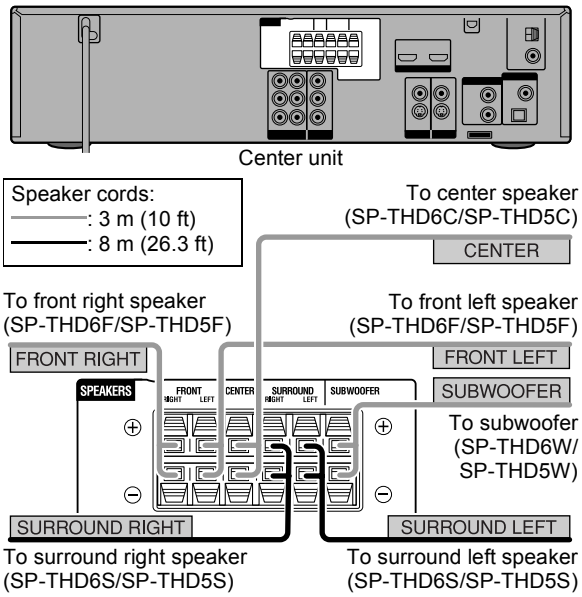
- Remote control (x 1)
- Batteries (x 2)
- FM antenna (x 1)
- AM loop antenna (x 1)
- Composite video cord (x 1)
- Connector for iPod
  - TH-D60/TH-D50: Docking station for iPod (x 1)
  - TH-D5/TH-D4:
    Connection cable for iPod (x 1)
    Stand for iPod (x 1)
- Speaker cords: 3 m (10 ft) (x 4), 8 m (26.3 ft) (x 2)
- Feet
  - TH-D60: For surround speakers (x 8)
  - TH-D50/TH-D5/TH-D4: For front and surround speakers (x 16)
- Screws (TH-D60 only): M5 x 85 mm (3-3/8 inches) (x 6)

Putting batteries into the remote control



- Do not expose batteries to heat or flame.
- If the range or effectiveness of the remote control decreases, replace both batteries.

Connecting the speakers and subwoofer

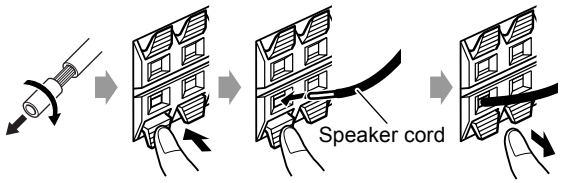


- If you connect speakers other than those supplied for the System, use speakers of the same speaker impedance (SPEAKER IMPEDANCE) indicated on the rear of the center unit.
- DO NOT connect more than one speaker to one speaker terminal.

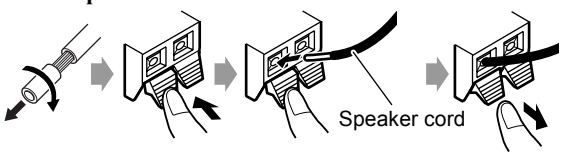
Connecting the speaker cords

Connect the speaker cords both to the center unit and to each speaker.

On the center unit:



On the speaker:



- Connect the black cords to the ⊖ terminals.
- Connect the white cords to the ⊕ terminals.

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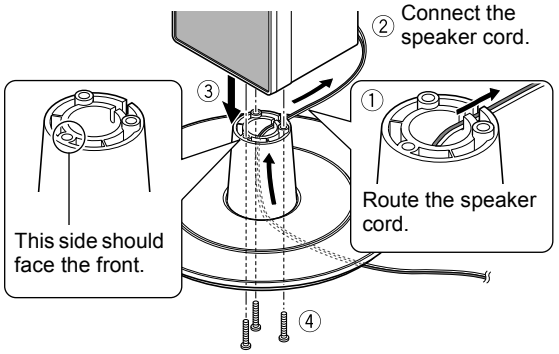
Do not connect the power cord until all other connections have been made.

Attaching the base plates—required for the SP-THD6F only



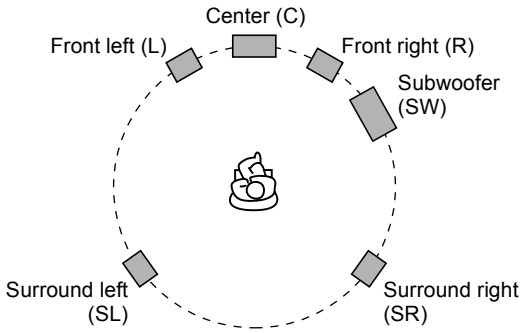
Use the supplied screws (M5 x 85 mm/3-3/8 inches) to attach the base plate to the speaker.

Speaker layout

You can enjoy surround sound by placing the speakers as illustrated (Speaker layout A or B).

Speaker layout A

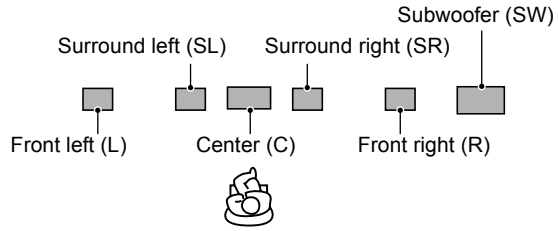
- Select “S.SPK R” as the speaker position mode for this layout. (☞ 12)



- To obtain the best possible surround sound from this System, place all the speakers except the subwoofer at the same distance from the listening position. If it is impossible, adjust the delay time from DELAY menu. (☞ 24)

Speaker layout B

- Select “S.SPK F” as the speaker position mode for this layout. (☞ 12)

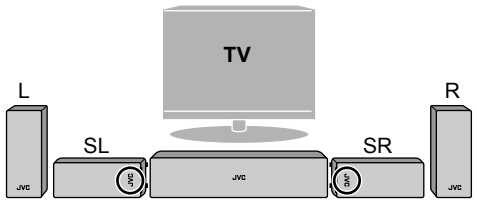


- Place the surround speakers close to the center speaker.
- It is recommended to place the surround speakers horizontally (see below).

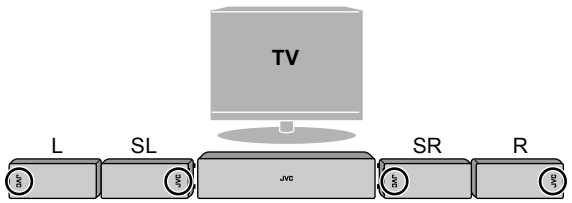
When placing the speakers horizontally

Lay the speakers horizontally so that the JVC logos are positioned as illustrated below.

Ex.:



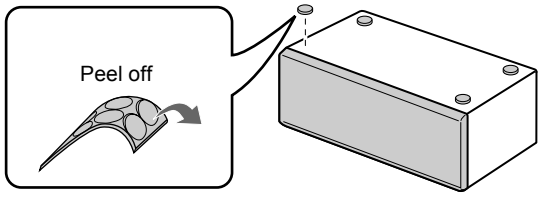
TH-D50/TH-D5/TH-D4 only: you can also lay the front speakers as illustrated below.



- TH-D60: Do not lay down the front speakers horizontally.
- You can turn the JVC logos to make them legible.

Attaching the feet

When placing the speakers horizontally, attach the feet to the bottom of the speakers as illustrated.



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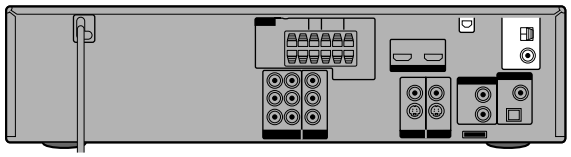
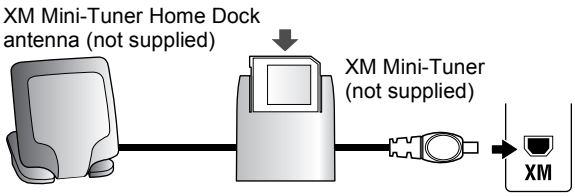
Connecting the antennas



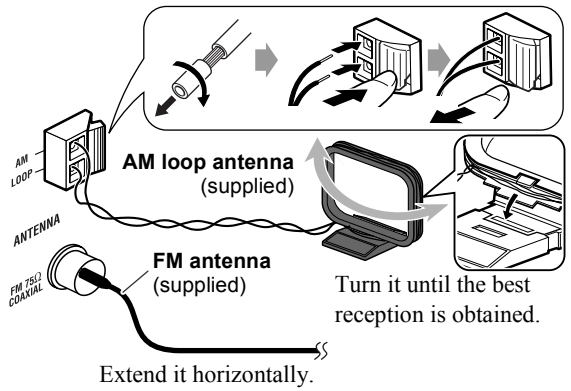
XM Mini-Tuner system—TH-D60 only



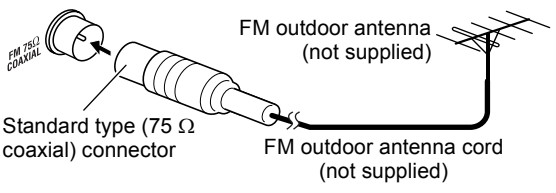
- For better reception, install the XM Mini-Tuner Home Dock antenna in the following location:
  – Near a south-facing window with aiming the antenna at the sky directly
  – Where “Channel 1” can be heard clearly
  – Where the Antenna Aiming display shows a value higher than 0 for either satellite or terrestrial signal strength (☞ 25)

AM and FM antennas

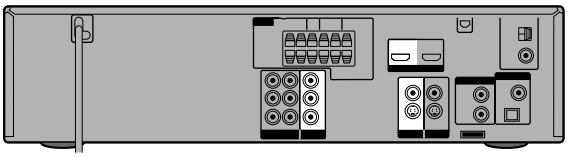
- Make sure the antenna conductors do not touch any other terminals, connecting cords or power cords.



For better FM reception



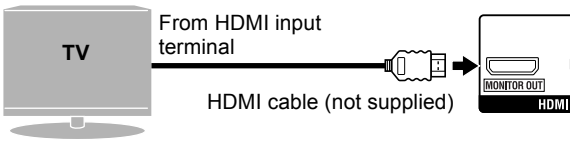
Connecting a TV



Connect the TV to the appropriate video out jacks to view the playback picture.

- The picture quality order is as follows:
  HDMI > Component video > S-video > Composite video
- Make the following settings after connecting the TV:
  – Scanning mode (☞ 14)
  – MONITOR TYPE (☞ 23)

Connection using the HDMI terminal



- You can make the following settings for the TV when the HDMI connection is used:
  – HDMI DVI COLOR (☞ 23)
  – HDMI OUT (☞ 23)
  – HDMI AUDIO OUT (☞ 24)
  – DOWN MIX (☞ 24)*
- Use a certified HDMI cable, which has the HDMI logo.
- You can use a monitor with a DVI terminal by connecting with a DVI-HDMI conversion cable.
- When you play HDCP (High-Bandwidth Digital Content Protection) source, allow a few seconds for the sound and picture to be transmitted to the speakers and TV while the confirmation process is completed.
- On some TV, no sound may come out during playback of sources such as DVD Audio even when the HDMI AUDIO OUT setting is “ON” (☞ 24).

* *This setting is available only when the speaker position mode is set to “S.SPK F” (☞ 12).*

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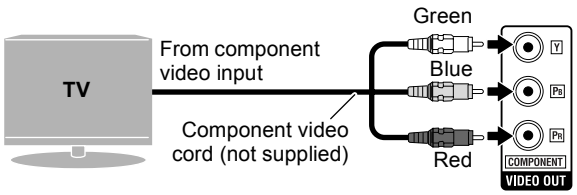
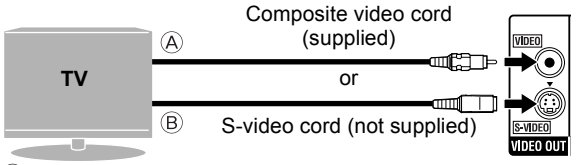
Do not connect the power cord until all other connections have been made.

Connection using the component video jacks



- For the BNC connection, use a plug adapter (not supplied).

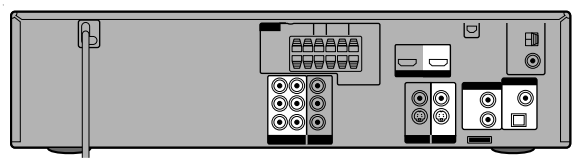
Connection using the S-video or composite video jack



Ⓐ From Composite video input
Ⓑ From S-video input

Align the ▲ marks.

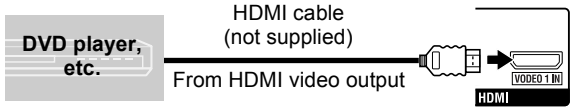
Connecting external components



Connection for "VIDEO1"—TH-D60

- Select "VIDEO1" as the source (☞ 11) for playing a component connected as follows.

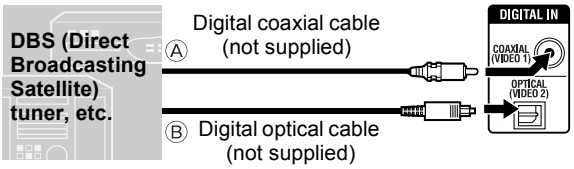
Video connection



- No sound signal comes into HDMI VIDEO 1 IN terminal. Make audio connection to listen to the sound (see the right column).

Audio connection

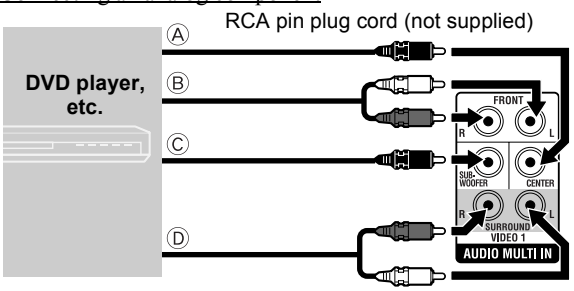
Connecting a digital component



Ⓐ From digital coaxial output
Ⓑ From digital optical output

- The initial setting for the audio input setting is "COAX." When using OPTICAL terminal, change the setting to "OPT" before playing back. (☞ 14)

Connecting an analog component



Ⓐ From center channel audio output
Ⓑ From front left/right channel audio outputs
Ⓒ From subwoofer output
Ⓓ From surround left/right channel audio outputs

- To listen to the sound from AUDIO MULTI IN jacks, perform the following procedure:
  – Place the speakers by following "Speaker layout A" (☞ 6).
  – Select "S.SPK R" as the speaker position mode. (☞ 12)
- Select "5.1CH" as the audio input setting before playing back. (☞ 14)

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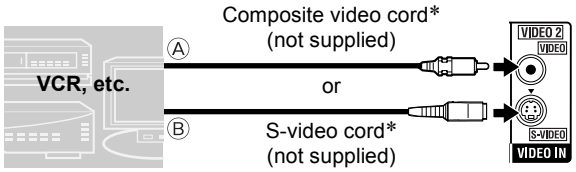
Do not connect the power cord until all other connections have been made.

Connection for "VIDEO2"—TH-D60

Select "VIDEO2" as the source (☞ 11) for playing a component connected as follows.

Video connection

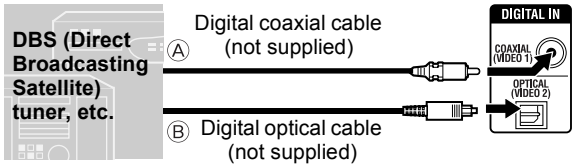


Ⓐ From composite video output
Ⓑ From S-video output

* *Connect an external component with the same kind of cable as the one used to connect TV. (☞ 8)*

Audio connection

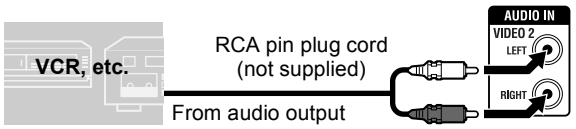
Connecting a digital component



Ⓐ From digital coaxial output
Ⓑ From digital optical output

The initial setting for the audio input setting is "OPT." When using COAXIAL jack, change the setting to "COAX" before playing back. (☞ 14)

Connecting an analog component

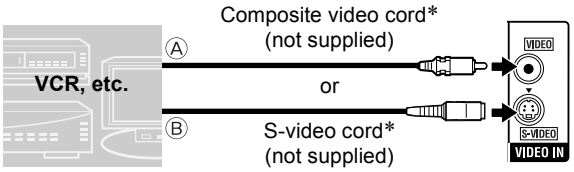


Select "2CH" as the audio input setting before playing back. (☞ 14)

Connection for "VIDEO" —TH-D50/TH-D5/TH-D4

Select "VIDEO" as the source (☞ 11) for playing a component connected as follows.

Video connection

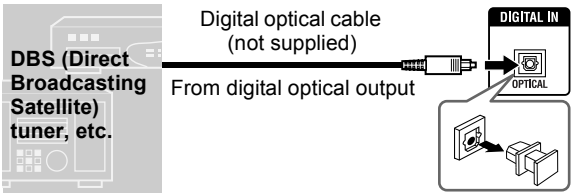


Ⓐ From composite video output
Ⓑ From S-video output

* *Connect an external component with the same kind of cable as the one used to connect TV. (☞ 8)*

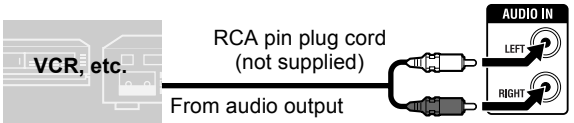
Audio connection

Connecting a digital component



Select "OPT" as the audio input setting before playing back. (☞ 14)

Connecting an analog component



Select "2CH" as the audio input setting before playing back. (☞ 14)

Connecting the AC power cord

Plug in the System only after all the connections have been completed.

Available video output terminals for each source

Terminal \ Source	DVD	USB	iPod	VIDEO2/ VIDEO	VIDEO1
HDMI	√	√			√
COMPONENT	√	√			
S-VIDEO	√	√	√	√	
VIDEO (Composite video)	√	√	√	√	

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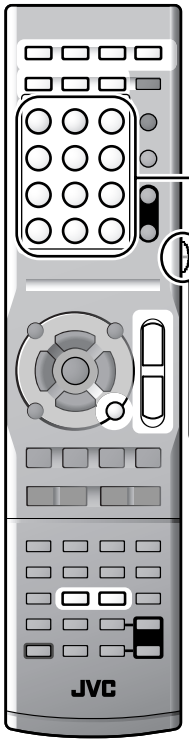
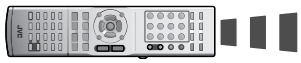
Basic and common operations



How to use the number buttons

To select 3: Press 3.
To select 10: Press 10.
To select 14: Press ≧10, 1, then 4.
To select 24: Press ≧10, 2, then 4.
To select 40: Press ≧10, 4, then 0.
To select 114: Press ≧10, ≧10, 1, 1, then 4.

Set the remote control mode before operation.



Point at the remote sensor directly.

Listening with headphones

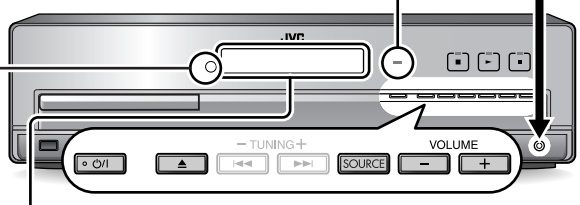
When the headphones is connected, the System automatically deactivates the speakers and cancels the surround mode (☞ 13) temporarily.

- "H.PHONE" appears on the display.

Be sure to turn down the volume before connecting or putting on the headphones.

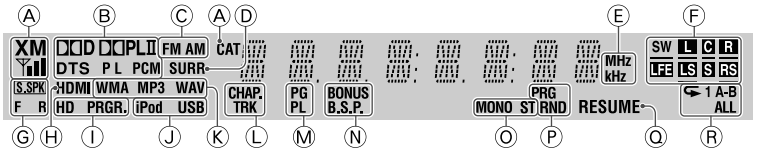
STANDBY lamp:

- Goes off when the System is turned on.
- Lights when the System is turned off.



Display

To change the display brightness



Ⓐ TH-D60 only: XM Satellite Radio indicators (☞ 25)
XM: Lights when "XM" is selected as the source.
: Shows XM Satellite Radio signal strength.
CAT: Lights while selecting a channel by category.

Ⓑ Digital audio signal format indicators

Ⓒ FM/AM tuner source indicators (☞ 27)

Ⓓ Lights when one of the surround modes is activated. (☞ 13)

Ⓔ Frequency unit indicators for FM/AM

Ⓕ Source signal and speaker signal indicators
L (front left), **C** (center), **R** (front right), **LFE** (low frequency effect), **LS** (surround left), **RS** (surround right), **S** (monaural surround)**:** Light when the signal comes in for the digital input or when the System is ready to receive the signal for the analog input.
SW (subwoofer)**:** Always lights.
_: Lights while reproducing the channel's sound through the corresponding speaker.

Ⓖ Speaker position mode indicators (☞ 12)

Ⓗ Lights when both the System and the TV (with HDMI connection) are ready to communicate each other.

Ⓘ Scanning mode indicators (☞ 14)
HD: Lights when "720P" or "1080I" is selected.
PRGR.: Lights when the progressive scanning mode is activated.

Ⓙ Digital device indicators

Ⓚ File type indicators

Ⓛ Lights when the chapter (**CHAP.**) or track (**TRK**) number is displayed.

Ⓜ Lights when selecting a program number (**PG**) or playlist number (**PL**) of a DVD VR disc by using TITLE/GROUP. (☞ 17)

Ⓝ Special playback indicators for DVD Audio (☞ 20)
BONUS: Lights when a bonus group is detected.
B.S.P: Lights when browsable still pictures are detected.

Ⓞ FM reception mode indicators (**MONO:** monaural / **ST:** stereo) (☞ 27)

Ⓟ Play mode indicators (**PRG:** program play / **RND:** random play) (☞ 18)

Ⓠ Lights when the System memorizes the position where the playback is interrupted. (☞ 16)

Ⓡ Repeat mode indicators (☞ 18, 21)

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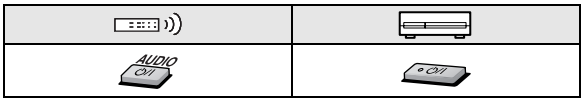
See page 10 for button locations.

Turning the power on or off



To turn off the System by using the sleep timer

– – (off) → **10** → **20** → **30** → **60** → **90** → **120** → **150** → **180** → (back to the beginning)
(unit: minutes)

To check the remaining time, press the button once.

Selecting the source

To do		Indication	
Play back a disc	DVD	DVD	15
Play back a file on a USB mass storage class device	USB MEMORY	USB	15
Play back an iPod	iPod	IPod	28
Listen to an XM Satellite Radio*1, FM, or AM station	FM/AM/XM *2	XM*1, FM, or AM	25*1, 27
Play back an external component • TH-D60: VIDEO1/ VIDEO2 • TH-D50/TH-D5/ TH-D4: VIDEO	VIDEO1 DBS	VIDEO1*3	29
	VIDEO2 VCR	VIDEO2*3	29
	VIDEO VCR	VIDEO*3	29

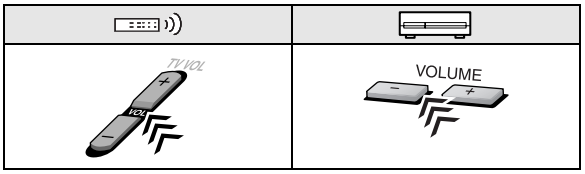
To select the source from the center unit

*1 *TH-D60 only*

*2 *TH-D50/TH-D5/TH-D4: The FM/AM button is used instead of FM/AM/XM.*

*3 *Make sure that the appropriate audio input setting have been made for the source (VIDEO1/VIDEO2 or VIDEO). (☞ 14)*

Adjusting the volume



To turn off the volume instantly

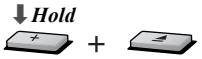
"MUTING" appears on the display.

To restore the volume, press the button again, or adjust the volume level.

Prohibiting disc ejection

1 Turn off the System.

2 Lock the disc tray.



(On the center unit)

"LOCKED" appears on the display.

To unlock the disc tray, perform the above procedure again. "UNLOCKED" appears on the display.

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Sound and monitor settings

Set the remote control mode before operation.

AUDIO
TV
VCR/DBS

Sound settings and adjustments

Selecting the speaker position mode

Select the speaker position mode according to your speaker layout (☞ 6).

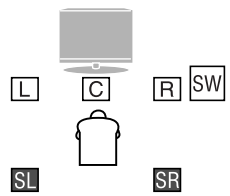
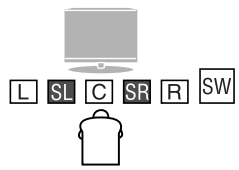
1 Turn off the System. (☞ 11)

2 ⬇*Hold* SETTING

S.SPK R

3 Select the appropriate speaker position mode according to your speaker layout (☞ 6).

SETTING

S.SPK R	For speaker layout A  • The S.SPK R indicator lights on the display.
S.SPK F	For speaker layout B  • The S.SPK F indicator lights on the display.

- As the speaker position mode is changed, the following settings are also changed automatically:
  – The output level settings of the speakers and subwoofer (see below) are initialized.
  – The surround mode (☞ 13) is set to "AUTO SUR."

Adjusting the output level of the speakers and subwoofer

1 SPK LEVEL

The items you can adjust differ depending on the selected speaker position mode (see the left column).

- **When the speaker position mode is "S.SPK R":**

  FRNT L → FRNT R → CENTER → SURR L → SURR R → SUBWFR → (back to the beginning)

- **When the speaker position mode is "S.SPK F":**

  CENTER → SURR → SUBWFR → (back to the beginning)

2 Adjust the output level.

LEVEL

- Different output level settings can be stored for the following two groups of sources:
  – TH-D60: DVD, USB, IPod, VIDEO1*[1], VIDEO2
  TH-D50/TH-D5/TH-D4: DVD, USB, IPod, VIDEO
  – TH-D60: FM, AM and VIDEO1*[2]
  TH-D50/TH-D5/TH-D4: FM and AM
- TH-D60 only: When the source is "XM," this adjustment is not available.

☼ You can also make adjustments from the LEVEL menu (☞ 24) when the speaker position mode is "S.SPK R."

*[1] *With "COAX" or "OPT" selected as the audio input setting (☞ 14)*

*[2] *With "5.1CH" selected as the audio input setting (☞ 14)*

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Adjusting the bass and treble sounds

1

TRE	Adjusts the treble sound
BASS	Adjusts the bass sound

2 Adjust the level.

Using the surround mode

Select one of the available surround modes.

The surround modes you can select depend on the playback source and the selected speaker position mode (☞ 12). For details on each surround mode, see "Available surround modes" on the right column.

- **During 2-channel playback with "S.SPK R" speaker position mode:**

AUTO SUR → MOVIE → MUSIC → STADIUM → ALL ST → OFF → (back to the beginning)

When the source is "FM" or "AM," you can only select "ALL ST."

- **During multi-channel playback with "S.SPK R" speaker position mode:**

AUTO SUR → currently selected mode* **→ OFF →** (back to the beginning)

* *When "AUTO SUR" is selected, the System automatically selects a proper multi-channel surround mode, such as "DOLBY D (Dolby Digital)" or "DTS (DTS Digital Surround)."*

- **During playback with "S.SPK F" speaker position mode:**

AUTO SUR → MOVIE → WIDE/2CH → SUPER W → OFF → (back to the beginning)

When the source is "FM" or "AM," the surround mode cannot be activated.

To check the surround mode currently selected, press SURROUND once.

TH-D60 only:
– When the source is "VIDEO 1" with "5.1CH" selected as the audio input setting (☞ 14), the surround mode setting is ineffective. All incoming signals are emitted through the corresponding speakers. "MULTI CH" appears on the display.
– When the source is "XM," the surround mode cannot be changed.

During playback of ASF, MPEG-2, or MPEG-1 files, the surround mode setting is ineffective.

For DVD Audio, when "LR ONLY" appears on the display, activate the surround mode for the multi-channel reproduction.

Available surround modes

Surround mode for "S.SPK R"	
AUTO SUR (Auto Surround)	Selects an appropriate surround mode according to the incoming signals
MOVIE (Dolby Pro Logic II Movie)	For movie sources
MUSIC (Dolby Pro Logic II Music)	For music sources
STADIUM	Adds clarity and spreads the sound, as if in an outdoor stadium
ALL ST (All Channel Stereo)	Reproduces a larger stereo sound field using all the activated speakers
OFF (Off)	Deactivates surround mode
Surround mode for "S.SPK F"	
AUTO SUR (Auto Surround)	Selects an appropriate surround mode according to the incoming signals
MOVIE	For movie or multi-channel music sources
WIDE/2CH	For 2-channel music sources
SUPER W (Super Wide)	Reproduces broader sound field
OFF (Off)	Deactivates surround mode

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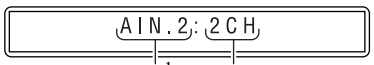
See page 12 for button locations.

Setting the audio input for external components

Set the audio input of the external component for "VIDEO1/ VIDEO2" (TH-D60) or "VIDEO" (TH-D50/TH-D5/TH-D4).

1 SETTING



Item*1 Current setting

2 TH-D60 only: Select a source you want to set the audio input for.

AIN.1	For "VIDEO 1"
AIN.2	For "VIDEO 2"

3 Select an appropriate audio input according to the audio connection. (☞ 8, 9)

2CH	For connection via the AUDIO IN jacks
5.1CH	For connection via the AUDIO MULTI IN jacks
COAX	For connection via the COAXIAL jack
OPT	For connection via the OPTICAL terminal

- You can select the following settings for each source (underlined items are the initial settings for each source):
  - "VIDEO1": 5.1CH*2, COAX*3, and OPT*3
  - "VIDEO2": 2CH, COAX*3, and OPT*3
  - "VIDEO": 2CH and OPT
- If your System is the TH-D60, make the audio input setting for both "VIDEO1" and "VIDEO2."

*1 *"AIN.1" or "AIN.2" appears on TH-D60, and "AIN." on TH-D50/TH-D5/TH-D4.*

*2 *TH-D60 only: When the speaker position mode is set to "S.SPK F," "5.1CH" is not selectable.*

*3 *TH-D60 only: It is not possible to select the same audio input setting for "VIDEO 1" and "VIDEO 2." For example, when "COAX" is assigned to "VIDEO 1," it is not selectable for "VIDEO 2."*

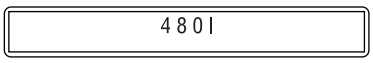
Scanning mode setting

Select the scanning mode according to the type of TV and connection method.

- To use the progressive mode, connect the TV to the HDMI MONITOR OUT terminal or COMPONENT jacks*1. (☞ 7)

1 Select "DVD" or "USB" as the source. (☞ 11)

2 Hold SCAN MODE



3 Select an appropriate scanning mode, then confirm the selection.

Select Confirm

480I*2	To see the picture in interlaced mode.
1080I*3	
480P	To see the picture in progressive mode.
720P*3	
AUTO*3	The System automatically emits the video signal to get the best picture quality on your TV.

- You can get better picture quality in the following orders:
  - 1080I > 720P
  - 480P > 480I
- **When the picture is not shown correctly,** change the scanning mode to the interlaced mode.
- When the TV is connected through S-VIDEO or VIDEO jack, the scanning mode setting has no effect.

*1 *Activate progressive mode only when your TV supports progressive video signals.*

*2 *Selectable only when the TV is connected via COMPONENT jacks. (☞ 8)*

*3 *Selectable only when the TV is connected via HDMI MONITOR OUT terminal. (☞ 7)*

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Disc/file playback

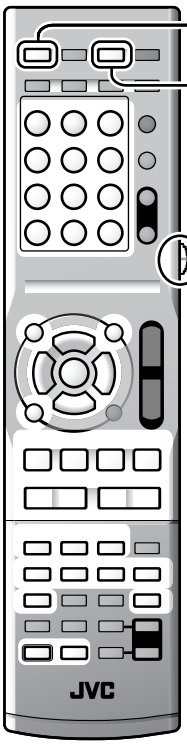
The following icons show the available disc/file types for the target function:

DVD VIDEO | DVD AUDIO | DVD VR | VCD | SVCD | CD | MP3 WMA WAV | JPEG | ASF | MPEG 1 | MPEG 2 | DivX

Initial settings

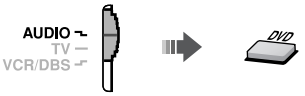
Make the following settings before playing back discs/files.

- Scanning mode (☞ 14)
- MONITOR TYPE (☞ 23)
- ON SCREEN LANGUAGE (☞ 23)



Set the remote control mode before operation.

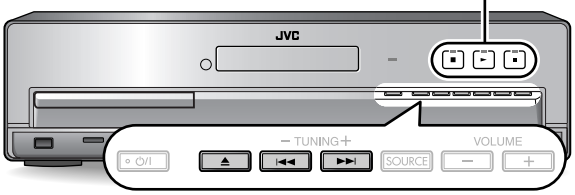
For disc playback



For playback of a file on a USB mass storage class device

Operating the touch sensor panel

You can operate the playback control buttons on the center unit simply by touching them.
When you touch any one of these buttons, it lights briefly in blue.



- If a still picture is displayed for about 5 minutes, the System automatically dims the screen (screen saver function). You can deactivate the screen saver function. (☞ 23)
- **When several types of files (music, picture or movie) are recorded on a disc or device, select the file type you want to play.** (☞ 23)
- For messages and icons appearing on the display, see "Messages and icons shown on the TV during disc/file playback" (☞ 31).

Basic playback

Playing back a disc

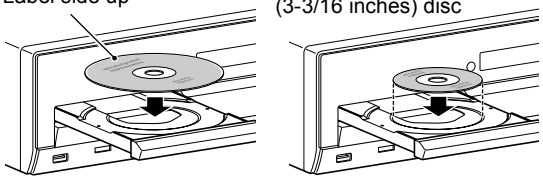
1 Select "DVD" as the source. (☞ 11)

2 (On the center unit)

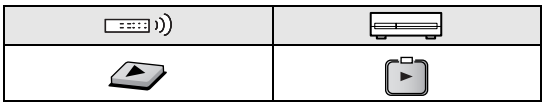
3 Place a disc on the tray.

Label side up

When placing an 8 cm (3-3/16 inches) disc



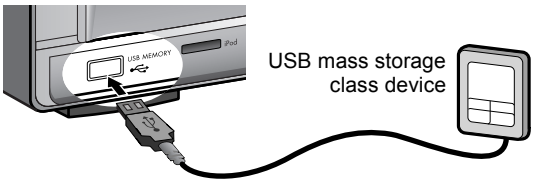
4 Start playback.



- JPEG: Slide-show playback starts.
- MP3/WMA/WAV: The file control display appears on the TV. (☞ 22)

Playing back a file on a USB mass storage class device

1 Connect a USB mass storage class device while the System is turned off.



2 Turn on the System, then select "USB" as the source. (☞ 11)

Playback starts automatically.
Press ► (play button) to start playback if the file is not played back automatically.

- JPEG: Slide-show playback starts.
- MP3/WMA/WAV: The file control display appears on the TV. (☞ 22)

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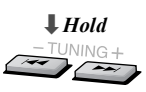
- DO NOT connect or disconnect the device when the System is turned on.
- You cannot connect a computer to the USB MEMORY terminal of the System.
- DO NOT connect the device through a USB hub.
- iPod does not play through the USB MEMORY terminal. When iPod is connected to the USB MEMORY terminal, “RESTRICT” appears on the display.
- This System may not playback some USB mass storage class devices and does not support DRM (Digital Rights Management).
- Use a USB cable of less than 1 m (3.3 ft) in length.

Play/stop/pause/search

To do		
Start playback		
Stop playback		
Pause playback		
Fast-forward/fast-reverse search*1	*2	

*1 *To return to normal playback, press ► (play button).*

*2 *Pressing and holding ⏮/⏭ also fast-forwards/fast-reverses tracks or files.*

Resume function

The System memorizes the position where the playback has been interrupted by one of the following operations:

- Pressing ■ once
- Turning off the power (☞ 11)
- Changing the source (☞ 11)

To resume playback, press ► (play button) or the corresponding source button.

To clear the memorized position, press ■ twice.

- Opening the disc tray or disconnecting the USB mass storage class device also clears the memorized position.

- This function does not work in program play and random play. (☞ 18)

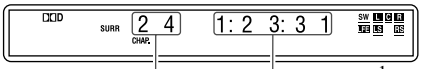
☼ You can deactivate the resume function. (☞ 24)

Changing the playback information

Each time you press the button, the playback information alternates between “type A” and “type B” on the display as follows:

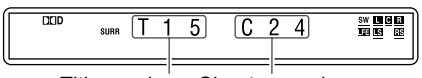
Ex.: When a DVD Video disc is played back.

Information type A



Chapter number Time information*1

Information type B



Title number Chapter number

Disc/ file type	Information type A	Information type B
DVD VIDEO	Chapter number with time information*1	Title (T) number and chapter (C) number
DVD VR		Program (PG) number/Playlist (PL) number and chapter (C) number
VCD SVCD CD	Track number with time information*1 *2	—
DVD AUDIO MP3 WMA WAV ASF MPEG 1 MPEG 2 DivX		Group (G) number and track (T) number
JPEG	File number	Group (G) number and file (F) number

*1 *For DVD Video, DVD Audio, DVD VR, VCD, SVCD, or CD, you can change the time information mode (☞ 21). For MP3, WMA, WAV, ASF, MPEG1, MPEG2, or DivX, elapsed playing time is shown.*

*2 *While playing a VCD or SVCD with PBC (☞ 17), only track number is displayed.*

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Using the disc menu

For DVD Video/DVD Audio

1 **For a DVD Video disc** **For a DVD Audio disc**

2 **Select the desired item, then confirm the selection.**

☼For some discs, you can also select items by using the number buttons.

* *TH-D50/TH-D5/TH-D4: The TOP MENU//PG button is used instead of TOP MENU/PG/DIRECT.*

For VCD/SVCD with PBC

The Play Back Control function (PBC) allows you to operate the VCD/SVCD using menus.

Select the number of the desired item while the menu is displayed on the TV.*

- **To move to the next or previous page of the current menu**

- **To return to the previous menu**

To perform playback without PBC

- While playback is stopped, select the desired track by using the number buttons.*
- Select the desired track by pressing ►►I repeatedly, then press ► (play button).

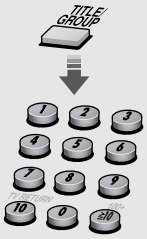
To activate the PBC function, press TOP MENU(/PG/DIRECT) or MENU(/PL).

While playing back a VCD or SVCD with PBC ("PBC" appears on the display), some functions such as time search, do not work.

* *For details on using the number buttons, see "How to use the number buttons" (☞ 10).*

Locating a desired scene or song

Selecting the beginning of a desired scene or song

To do		Disc/file
Skip chapter/track/file *1		
Select the chapter/ track/file number*3 *4		
Select the title/ program or playlist/ group number*3 • Enter the number while "– –" is flashing on the display		

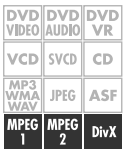
*1 *For DVD Video, DVD VR, VCD, and SVCD discs, this function is not available while playback is stopped.*

*2 *For DVD Video and DVD VR discs, you can select a title/ program while playback is stopped.*

*3 *For details on using the number buttons, see "How to use the number buttons" (☞ 10).*

*4 *When selecting the chapter/track/file number from the on-screen bar, see "Using the on-screen bar" (☞ 21).*

Selecting the desired position of a scene or song

To do		Disc/file
Move the playback position back by 10 seconds (one-touch replay)*1 *2		
Skip at approximately 5-minute intervals*1		

*1 *This function works only within the same title/program/file.*

*2 *This function is not available during repeat play.*

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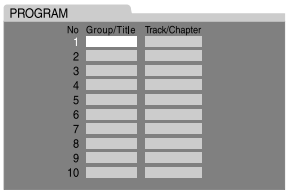
See page 15 for button locations.

Changing the playback mode

Program play and random play cannot be used for a USB mass storage class device.

Programing the playing order—program play

1 PLAY MODE



Program window

DVD VIDEO | DVD AUDIO | DVD VR
VCD | SVCD | CD
MP3 WMA WAV | JPEG | ASF
MPEG 1 | MPEG 2 | DivX

2 Select the desired chapters/ tracks.

- **For DVD Video, DVD Audio, MP3 and WMA:** Enter a title/group number, then a chapter/track number.*
- **For VCD, SVCD and CD:** Enter a track number.*

To clear the programs

One by one

CANCEL

All programs at once

Hold CANCEL

3 ENTER

To check the program contents

MEMORY → ENTER

To return to normal playback

PLAY MODE

Press the button repeatedly until both the program window and RANDOM disappear from the TV.

- To program the tracks in the bonus group on a DVD Audio disc, perform the "Playing back a bonus group" procedure (☞ 20) before operation.
- You can program up to 99 steps.

* *For details on using the number buttons, see "How to use the number buttons" (☞ 10).*

Playing at random—random play

1 PLAY MODE RANDOM

2 ENTER

DVD VIDEO | DVD AUDIO | DVD VR
VCD | SVCD | CD
MP3 WMA WAV | JPEG | ASF
MPEG 1 | MPEG 2 | DivX

To return to normal playback

PLAY MODE

Press the button repeatedly until both the program window and RANDOM disappear from the TV.

- To play the tracks in the bonus group on a DVD Audio disc during random play, perform the "Playing back a bonus group" procedure (☞ 20) before operation.

Playing repeatedly—repeat play

REPEAT

The repeat modes you can select depend on the playback discs/files.

DVD VIDEO | DVD AUDIO | DVD VR
VCD | SVCD | CD
MP3 WMA WAV | JPEG | ASF
MPEG 1 | MPEG 2 | DivX

On the display	On the TV	Meaning
	GROUP REPEAT GROUP	Repeat current group
	TITLE	Repeat current title
	PG	Repeat current program
	PL	Repeat current playlist
ALL	ALL REPEAT ALL	Repeat all titles/ programs/tracks/files
1	TRACK, STEP REPEAT TRACK, REPEAT STEP	Repeat current track
	CHAP, STEP	Repeat current chapter
No indication	OFF	Repeat mode is deactivated

- You can repeat the desired part from the on-screen bar (A-B repeat). (☞ 21)
- This function is not available when playing back a VCD/SVCD disc with PBC (☞ 17).

* *For DVD Video and DVD VR discs, this function is not available while playback is stopped.*

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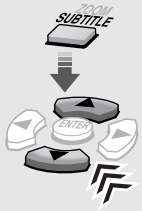
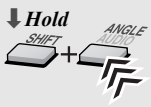
Advanced operations

Changing the language/sound/scene angle

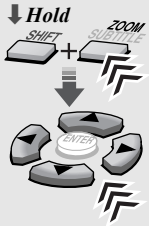
To do		Disc/file
Select the subtitle language*1 *2 1/3 ENGLISH • To show/hide the subtitle, press SUBTITLE.		DVD VIDEO, DVD AUDIO, DVD VR, VCD, SVCD, CD, MP3 WMA WAV, JPEG, ASF, MPEG 1, MPEG 2, DivX
Select the audio language/audio channel*2 1/3 ENGLISH		DVD VIDEO, DVD AUDIO, DVD VR, VCD, SVCD, CD, MP3 WMA WAV, JPEG, ASF, MPEG 1, MPEG 2, DivX
Select the view angle 1/3 1		DVD VIDEO, DVD AUDIO, DVD VR, VCD, SVCD, CD, MP3 WMA WAV, JPEG, ASF, MPEG 1, MPEG 2, DivX

For DVD Audio, the functions take effect for the moving picture part only.

*1 *For DVD VR and SVCD discs, the subtitle indication appears and can be changed by performing the above procedure even if no subtitles are recorded.*

*2 *Some subtitle or audio languages are abbreviated in the pop-up window. See "Language code list" (☞ 30).*

Special picture playback

To do		Disc/file
Play back frame by frame		DVD VIDEO, DVD AUDIO, DVD VR, VCD, SVCD, CD, MP3 WMA WAV, JPEG, ASF, MPEG 1, MPEG 2, DivX
Play back in slow-motion*1		DVD VIDEO, DVD AUDIO, DVD VR, VCD, SVCD, CD, MP3 WMA WAV, JPEG, ASF, MPEG 1, MPEG 2, DivX
Enlarge the picture*2 *3 • Change the scene magnification, then move the zoomed-in area.		DVD VIDEO, DVD AUDIO, DVD VR, VCD, SVCD, CD, MP3 WMA WAV, JPEG, ASF, MPEG 1, MPEG 2, DivX

To return to normal playback

- While playing back frame by frame or in slow-motion, press ► (play button).
- While zooming in the picture, select "OFF" by pressing ZOOM repeatedly while holding SHIFT.

For DVD Audio, the functions take effect for the moving picture part only.

*1 *For DVD Video and DVD Audio, reverse slow-motion is also available by pressing ⊖ SLOW repeatedly.*

*2 *To zoom in JPEG files, pause the playback first.*

*3 *On some files, using cursor (►/◄/▼/▲) cannot move the zoomed-in area during playback.*

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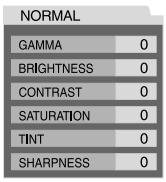
See page 15 for button locations.

Adjusting the picture quality (VFP)

You can adjust the picture mode.

1



2 Select the desired preset, then finish the setting.

NORMAL	Normally select this.
CINEMA	Suitable for movies
USER1/ USER2	You can adjust parameters that affect picture appearance. (See below.)

To adjust the picture tone

1 Select "USER1" or "USER2" (see above).

2 Select a parameter, then confirm the selection.

GAMMA	Controls the brightness of the neutral color
BRIGHTNESS	Controls the brightness of the entire picture
CONTRAST	Controls the contrast
SATURATION	Controls the color depth
TINT	Controls the tint
SHARPNESS	Controls the sharpness

3 Adjust the parameter, then confirm the selection.

4 Repeat steps 2 and 3 to adjust others.

5

When connecting the TV to the HDMI MONITOR OUT terminal (☞ 7), the VFP setting has no effect.

Special playback for DVD Audio

Playing back a bonus group

Some DVD Audio discs have a "bonus group."
To play back a bonus group, you have to enter the specific "key number" (a password).

1 Select a bonus group.

The key number entry screen appears.

On the TV

On the display

2 Enter the key number, then confirm the entry.

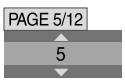
To clear the key number entry

Selecting browsable still pictures

While playing back a track linked to browsable still pictures (B.S.P), you can select the still pictures (turn the page).

- If a track is linked to browsable still pictures, they are usually shown automatically during playback.

Select the desired still picture.



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Operation from the TV screen

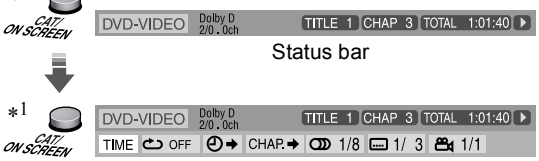
Using the on-screen bar

You can use various functions from the on-screen bar.

DVD VIDEO | DVD AUDIO | DVD VR | VCD | SVCD | CD | MP3 WMA WAV | JPEG | ASF | MPEG 1 | MPEG 2 | DivX

Basic operation procedure

1 *1 Ex.:



Status bar

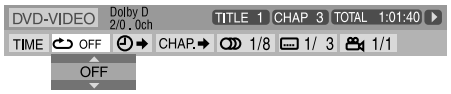
Function bar*2

2 Select the desired item (see the right column), then confirm the selection.

After confirming the selection...

- **When the pull-down menu appears,** select the desired item by pressing cursor ▲/▼ repeatedly, then confirm the selection by pressing ENTER.

  Ex.:



- **When a number-entry box appears,** enter the number by using the number buttons (0-9), then confirm the entry by pressing ENTER.

  Ex.:

  To correct a misentry:

  – [⏲➡] setting: press cursor ◄ repeatedly to clear the misentry, then re-enter the number.

  – [CHAP.➡] setting: re-enter the number.

- **When changing the time information mode ([TIME]),** select the desired item by pressing ENTER repeatedly.

To clear the on-screen bar

*1

The contents of the on-screen bar differ according to the type of discs/files.

*1 *TH-D50/TH-D5/TH-D4: The ON SCREEN button is used instead of CAT/ON SCREEN.*

*2 *During playback of ASF, MPEG-1, MPEG-2, or DivX files, the function bar does not appear.*

On-screen bar functions

[TIME]	Selects the time information mode shown on the display and the status bar. TIME*3: Elapsed time of chapter/track REM*3: Remaining time of chapter/track TOTAL: Elapsed time of title (DVD Video)/ group (DVD Audio)/program (DVD VR)/disc (VCD/CD/SVCD) T.REM: Remaining time of title (DVD Video)/group (DVD Audio)/ program (DVD VR)/disc (VCD/ CD/SVCD)
[↻]	Selects repeat mode. [↻GROUP]/[↻TITLE]/[↻PG]/[↻PL]/[↻ALL]/ [↻TRACK]/[↻CHAP]/[↻STEP]/[↻OFF]: See also “Playing repeatedly—repeat play” (☞ 18). [↻A–B]: Repeats the desired part (A-B repeat).*4 *5 After selecting this, select the beginning point (A) by pressing ENTER, then select the end point (B) by pressing ENTER again.
[⏲➡]	Specifies the playback point by the time.
[CHAP.➡]	Specifies a chapter to play back from.
[TRACK➡]	Specifies a track to play back from.
[🔊]	Selects the audio language or audio channel during playback.
[▭]	Selects the subtitle language during playback.
[🎥]	Selects the desired scene angle in a multi-angle part during playback.
[PAGE]	Selects the desired browsable still picture.

*3 *Not available for DVD VR discs*

*4 *During playback of DVD Video or DVD VR discs, A-B repeat play is available only within the same title/program.*

*5 *A-B repeat play is not available during program and random playback.*

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See page 15 for button locations.

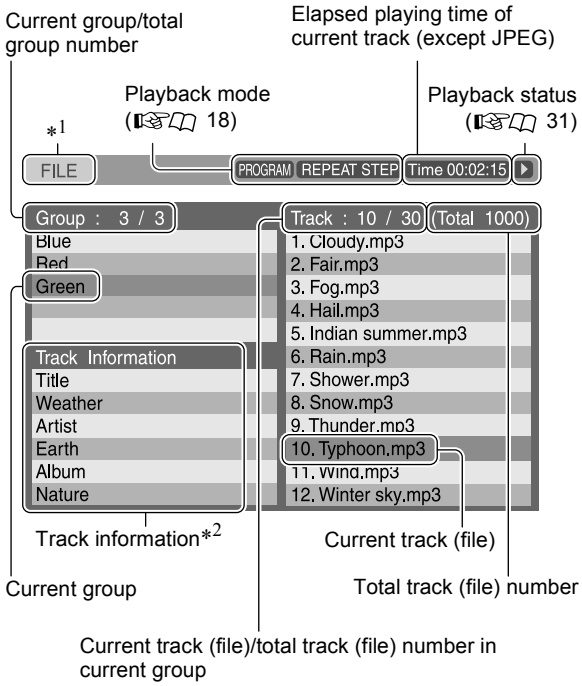
Using the file control display

DVD VIDEO | DVD AUDIO | DVD VR | VCD | SVCD | CD | MP3 WMA WAV | JPEG | ASF | MPEG 1 | MPEG 2 | DivX

- The file control display appears in the following cases.
  – Audio files: Always appears.
  – Movie and picture files: When TOP MENU(/PG/DIRECT) or MENU(/PL) is pressed or playback is stopped.

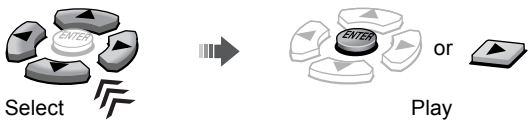
File control display

Ex.:



To play back the desired track/file

Select a desired group/track/file, then start playback.



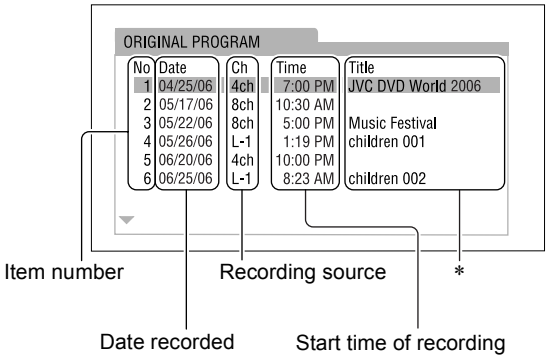
- For JPEG:
  – **To start a slide-show from the selected file,** press ► (play button).
  – **To play the selected file only,** press ENTER.

*1 *When the source is "DVD," "FILE" appears, and when the source is "USB," "USB" appears.*

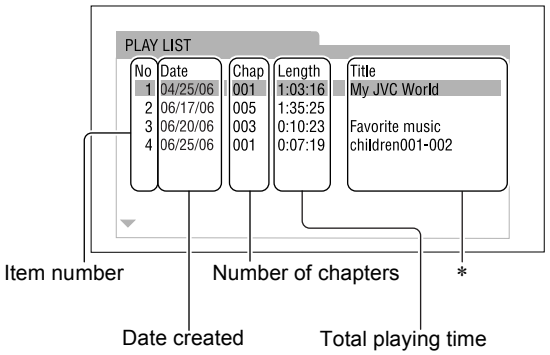
*2 *For MP3/WMA/WAV only.*

Using the program list/ playlist (for DVD VR)

Program list



Playlist



* *The title may not be displayed depending on the recording equipment.*

To play back the desired item

1 **To display the program list**

*

To display the playlist

The System starts playing the first item.

2 **Select the desired item.**

3

* *TH-D50/TH-D5/TH-D4: The TOP MENU/PG button is used instead of TOP MENU/PG/DIRECT.*

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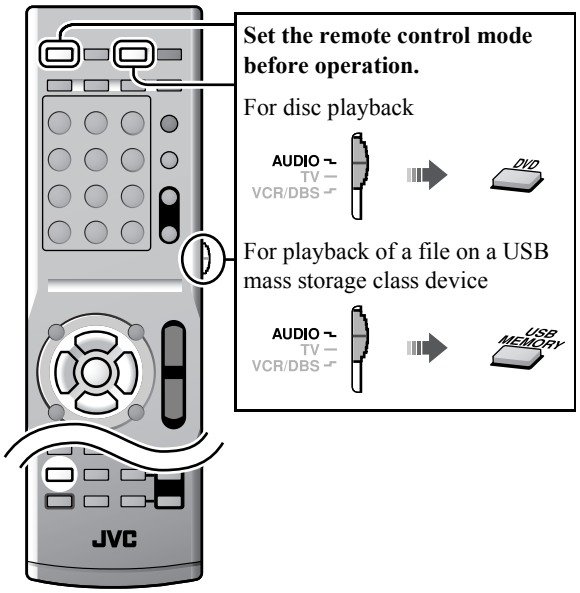
Personal settings



You can change the settings of the System according to your preferences and playing environment.

1 SET UP

2 Select the menu.

3 Select the item, then confirm.

Repeat this procedure until all the options have been confirmed.

To close the setup screen

SET UP

Language menu (LANGUAGE)

MENU LANGUAGE	Select the language for the DVD/DivX menu.	See “Language code list” (☞ 30) for the code of each language, such as “AA,” etc.
AUDIO LANGUAGE	Select the language for the audio language.	
SUBTITLE	Select the language for the subtitle language.	
ON SCREEN LANGUAGE	Select the language for the screen.	

Picture menu (PICTURE)

MONITOR TYPE	Select 16:9 wide-screen playback to fit your monitor. For wide TV: **16:9 NORMAL:** For fixed 16:9 wide TV **16:9 AUTO:** For ordinary wide TV For conventional (4:3) TV: **4:3 LB** **4:3 PS**
PICTURE SOURCE	Select the source type of the disc/file contents when selecting the progressive scanning mode (☞ 14). **AUTO:** Normally select this. **FILM:** For a film source movie **VIDEO:** For a video source movie
SCREEN SAVER	Activate (**ON**) or deactivate (**OFF**) the screen saver function.
FILE TYPE	Select the file type to play when several types of files are recorded on a disc/device. **AUDIO:** For audio files **STILL PICTURE:** For picture files **VIDEO:** For movie files
HDMI DVI COLOR	Select the picture appearance for a TV with an HDMI connection. **STANDARD:** No effect applied. **ENHANCE:** Select when you need automatic picture adjustment.
HDMI OUT	Select the type of video signal output from the HDMI MONITOR OUT terminal. **AUTO:** Normally select this. **RGB:** Select this when no picture appears on the TV with “AUTO.”

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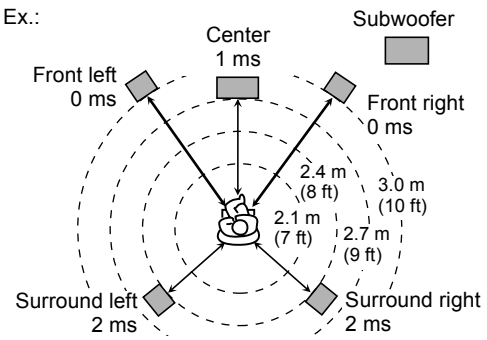
Audio menu (AUDIO)

DOWN MIX	This menu is available only when the speaker position mode is set to "S.SPK F" (☞ 12). Select the audio signal output to the TV connected to the HDMI MONITOR OUT terminal. **DOLBY SURROUND:** For the TV equipped with Dolby Pro Logic decoder **STEREO:** For ordinary TV
D. RANGE COMPRESSION	You can enjoy powerful audio even at low volume level while playing Dolby Digital software. **AUTO:** Select this to apply the compression only to the multi-channel software (except 1-channel and 2-channel sources). **ON:** Select this to always apply the compression.
HDMI AUDIO OUT	This setting is effective only for the source "DVD" or "USB." Select whether the System emits the audio signal from the HDMI MONITOR OUT terminal (**ON**) or not (**OFF**). • For selecting whether the external component emits the audio signal through its HDMI terminal, make the setting on the external component.

Speaker setting menu (SPK.SETTING)

SPK.SETTING menu is available only when the speaker position mode is set to "S.SPK R" (☞ 12).

LEVEL	Adjust the output level of each speaker while monitoring the test tone. **FRONT LEFT/RIGHT SPEAKER, CENTER SPEAKER, SURROUND RIGHT/LEFT SPEAKER:** Select the speaker, then adjust the output level. **TEST TONE:** Turns on/off the test tone.
DELAY	Adjust the delay time of the speakers. **FRONT LEFT/RIGHT SPEAKER, CENTER SPEAKER, SURROUND RIGHT/LEFT SPEAKER:** Select the speaker, then adjust the distance from the listening position to the speakers. • **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. Ex.: 
SUBWOOFER	Make the subwoofer setting. **LEVEL:** Adjust the output level of the subwoofer. **CROSS OVER:** Select an appropriate crossover frequency according to the size of the cone speaker unit built into the small speaker connected. **120Hz:** Select this when the cone speaker unit size is 8 cm (3-3/16 inches) or more. **150Hz:** Select this when the cone speaker unit size is between 6 cm (2-3/8 inches) and 8 cm (3-3/16 inches). **200Hz:** Select this when the cone speaker unit size is 5 cm (2 inches) or less.

Other setting menu (OTHERS)

RESUME	Activate (**ON**) or deactivate (**OFF**) the resume function.
ON SCREEN GUIDE	Activate (**ON**) or deactivate (**OFF**) the on-screen guide icons.
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 purposes.

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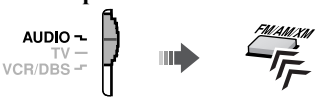
XM Satellite Radio operations

XM Satellite Radio operations are available on TH-D60 only.

Set the remote control mode before operation.



- Select "XM" as the source. (☞ 11)

About XM Satellite Radio

XM Satellite Radio offers an extraordinary variety of commercial-free music, plus the best in sports, news, talk and entertainment. XM is broadcast in superior digital audio from coast to coast. From rock to reggae, from classical to hip hop, XM has something for every music fan. XM's dedication to playing the richest selection of music is matched by its passion for live sporting events, talk radio, up-to-the-minute news, stand-up comedy, children's programming, and much more.
For U.S. customers, information about XM Satellite Radio is available online at www.xmradio.com. For Canadian customers, information about XM Canada is online at www.xmradio.ca.

For messages appearing on the display, see "Messages shown on the display while listening to the XM Satellite Radio" (☞ 31).

Preparations

Make sure that you have the following items to enable you to listen to the XM Satellite Radio stations:

- The XM Mini-Tuner system—XM Mini-Tuner and XM Mini-Tuner Home Dock antenna
- A subscription to XM Satellite Radio

How to subscribe

Hardware and required monthly subscription sold separately. Other fees and taxes, including a one-time activation fee may apply. Subscription fee is consumer only. All fees and programming subject to change. Channels with frequent explicit language are indicated with an XL. Channel blocking is available for XM radio receivers by calling 1-800-XMRADIO (US residents) and 1-877-GET-XMSR (Canadian residents).
For a full listing of the XM commercial-free channels and advertising-supported channels, visit lineup.xmradio.com (US residents) and xmradio.ca (Canadian residents). Only available in the 48 contiguous United States and Canada.

To start subscribing, you need to have the XM Satellite Radio ID code. To find the ID code, see "How to find the XM Satellite Radio ID code" below.

- The following channels are available without subscription:
  - **Channel 0**: For checking the XM Satellite Radio ID code
  - **Channel 1**: "XM Preview" channel

Select "XM" as the source before starting subscription, and keep the source "XM" until subscribing is completed.

How to find the XM Satellite Radio ID code

Tune in to "Channel 0" to check your XM Satellite Radio ID code.

The 8-digit (alphanumeric) ID code is displayed.

- **To cancel the ID code display,** select any channel other than "Channel 0."

Finding the best position for the XM Mini-Tuner Home Dock antenna

You can place the XM Mini-Tuner Home Dock antenna optimally by checking the signal strength shown on the display.

1 *Hold* SET UP

Antenna Aiming display

2 Aim the XM Mini-Tuner Home Dock antenna to the direction at where you get best signal strength value—either "S" (Satellite) or "T" (Terrestrial).

- The signal strength value is from 0 (worst) to 4 (best).
- The most reliable reception is achieved when signal strength values are at least 3 on both Satellite and Terrestrial. Terrestrial coverage is available only in large metropolitan cities.

3 SET UP

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Manual tuning

To search a channel

- While searching, the invalid and unsubscribed channels are skipped.
- TUNING ⊕/TUNING ⊖ are not used to select a XM Satellite Radio channel.

To select a channel within the category

1 Enter the category search mode.

2 Select the desired category name, then select the channel.

Select category → Select channel

3 Exit from the category search mode.

To select a channel number directly

1

2 Select the desired channel number.*

* *For details on using the number buttons, see "How to use the number buttons" (☞ 10).*

Preset tuning

You can preset 30 XM Satellite Radio channels.

Storing the preset channels

1 Tune in to the channel you want to preset.

2

"_ _" flashes on the display. Perform the next step while "_ _" is flashing.

3 Select a preset number, then store the channel to that number.

Enter a preset number* → Store

- "STORED" appears on the display.

Tuning in to a preset channel

Select a preset number.*

You can also select a preset number by pressing PRESET(/CAT) UP or PRESET(/CAT) DOWN when the System is not in the category search mode (the CAT indicator is turned off). To exit from the category search mode, see the left column.

* *For details on using the number buttons, see "How to use the number buttons" (☞ 10).*

Changing the channel information

You can change the type of channel information which appears on the display.

CH (channel number) → **CHAN** (channel name) → **NAME** (artist name/feature) → **TITLE** (song/program title) → **CAT** (category name) → (back to the beginning)

- If you turn off the power or select another source, the display is changed back to the channel name information.
- When tuning in to another channel, the channel name appears on the display temporarily.
- Some characters cannot be displayed correctly.

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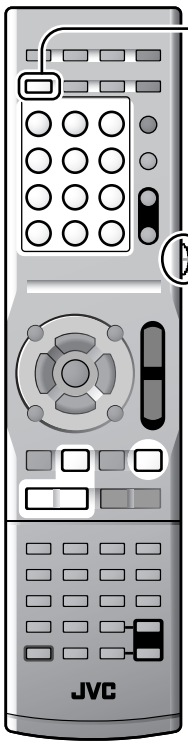
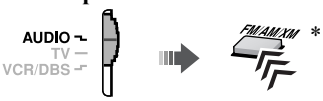
FM/AM tuner operations



Set the remote control mode before operation.

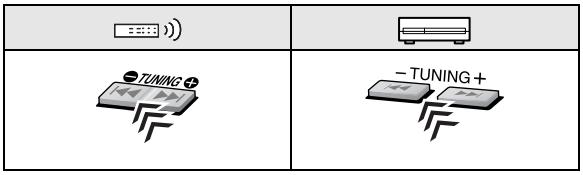


- Select the desired source (“FM” or “AM”) you want to listen to. (☞ 11)

* *TH-D50/TH-D5/TH-D4: The FM/AM button is used instead of FM/AM/XM.*

Manual tuning

Tuning in to a station



- You can also tune in to a station automatically. Press and hold TUNING ⊕/TUNING ⊖ until the station search starts. The system tunes in the first station of sufficient signal strength found automatically.
- You can also tune in to the station by pressing cursor ▲/▼.

Preset tuning

You can preset 30 FM stations and 15 AM stations.

Storing the preset stations

1 Tune in to the station you want to preset.

2 MEMORY “_ _” flashes on the display. Perform the next step while “_ _” is flashing.

3 Select a preset number, then store the station to that number.

Enter a preset number*

- “STORED” appears on the display.

Tuning in to a preset station

Select a preset number.*

- You can also select a preset number by pressing PRESET(/CAT) UP or PRESET(/CAT) DOWN.

* *For details on using the number buttons, see “How to use the number buttons” (☞ 10).*

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.

AUTO	Normally select this.
MONO	Select to improve reception. (You will lose the stereo effect.)

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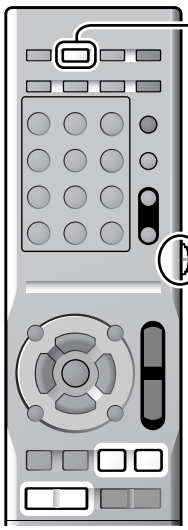
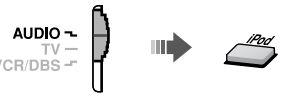
iPod playback



Set the remote control mode before operation.



Before selecting the video source to play

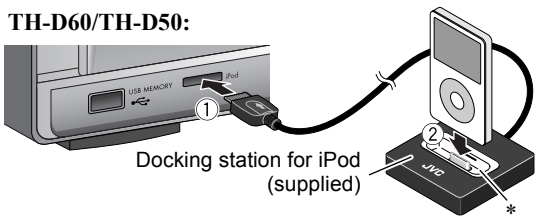
Make the appropriate setting for video output on the iPod.

Starting playback

- Be sure to reduce the volume on the System to the minimum level before connecting an iPod. Adjust the volume after playback has started.

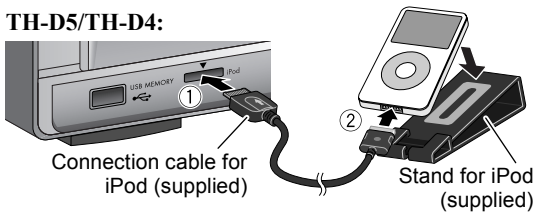
1 Connect an iPod while the System is turned off.

TH-D60/TH-D50:



* *Attach the dock adapter (supplied for the iPod or separately purchased) before placing the iPod. (☞ 32)*

TH-D5/TH-D4:



- Face the arrow-mark side up when connecting the plug.

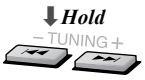
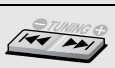
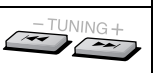
2 Turn on the System, then select "IPod" as the source. (☞ 11)

"CONNECT" appears on the display. If an iPod is not connected firmly, "NO CONNE" appears.

3 Start playing the iPod.

- Press ► (play button) again if iPod does not start playback.

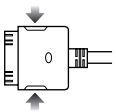
Play/pause/search/skip

To do		
Start playback		
Pause playback		
Fast-forward/fast-reverse search		
Skip to the next/previous item*		

* *Operate on your iPod to skip to the next/previous item while playing back a video.*

- The iPod enters sleep mode when you turn off the System or select another source.
- To show still pictures in the iPod, play back in slide-show mode on the iPod.

- DO NOT connect or disconnect the iPod when the System is turned on.
- DO NOT touch the iPod terminal pins or the connector pins.
- When the iPod is not charged through the System, the iPod may not be turned on from the System.
- If the sound is distorted when audio sources with high recording levels are played, you are recommended to deactivate the equalizer on your iPod.
- To view a video/picture from the iPod on the TV, connect the System to the TV via the composite or S-video jacks. (☞ 8)
- You cannot send any data to your iPod from the System.
- TH-D5/TH-D4 only: To disconnect the iPod cable from the iPod, press the buttons on the sides, then pull it out.



- The iPod battery is charged only when "IPod" is selected as the source.

If the iPod which is not listed in "Playable digital devices" (☞ 3) is connected, the iPod may not be operated from the System. In this case, deactivate the iPod battery charge function so that the iPod may be operated, but the iPod cannot be charged through the System.

To deactivate the battery charge function

"P.OFF" appears on the display.

To use the battery charge function, perform the above procedure again. "P.ON" appears on the display.

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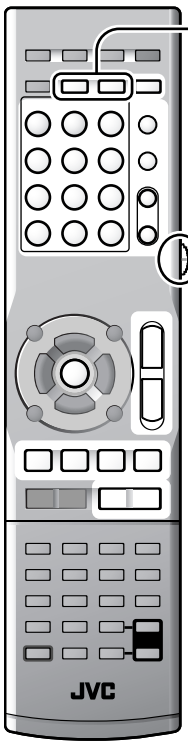
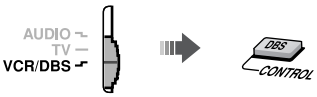
Operating external components



Set the remote control mode before operation.

For TV

For DBS tuner or CATV converter



For VCR

Preparation

Make the audio input setting before operation. (☞ 14)

Setting the manufacturer's code

Before operating external components from the remote control, set the manufacturer's code.

1 Set the remote control mode (see above).

2 Press and hold ⏻/I for the target component until the setting is finished.

For TV	For DBS tuner or CATV converter	For VCR

3

4 Enter the manufacturer's code.

See "Manufacturer's code list" for the manufacturer's code. (☞ 30)

5 Release ⏻/I .

- If there is more than one code listed for the corresponding brand, try each one until you enter the correct one.
- Set the codes after replacing batteries of the remote control.

Operating external components

Set the remote control mode before operating each external component (see the left column).

Operating the TV

⏻/I TV	Turns the power 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, ≧10 (100+)	Selects the channels
TV RETURN	Alternates between the previously selected channel and the current channel

Operating the DBS tuner or CATV converter

⏻/I VCR/DBS	Turns the power on and off
CH +/–	Changes the channels
1-10, 0, ≧10 (100+)	Selects the channels

Operating the VCR

⏻/I VCR/DBS	Turns the power on and off
► (play button)	Starts playback
■	Stops playback
II	Pauses playback
►►	Fast-forwards the tape
◄◄	Rewinds the tape
REC	Press this button together with ► (play button) to start recording or together with II to enter recording-pause.
CH +/–	Changes the TV channels
0 - 9	Selects the TV channels

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References

Manufacturer's code list

TV

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		

DBS tuner or CATV converter

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

VCR

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		

* *Initial setting*

Manufacturers' codes are subject to change without notice.

Language code list

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

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Messages and icons shown on the TV and display

Messages and icons shown on the TV during disc/file playback

OPEN/CLOSE	Opening or closing the disc tray
NOW READING	Reading the disc/file information
READING INDEX...	Reading the DivX file
REGION CODE ERROR!	The Region Code of the DVD Video disc does not match the code the System supports. (☞ 3)
NO DISC	No disc or an unfinalized disc is loaded.
NO USB DEVICE	No USB mass storage class device is loaded.
CANNOT PLAY THIS DISC	An unplayable disc is loaded.
CANNOT PLAY THIS DEVICE	An unplayable USB mass storage class device is connected.
RESTRICTED DEVICE	iPod is connected to the USB MEMORY terminal.
NOT SUPPORT	The file cannot be played back.

⊘	The operation is unacceptable.
▶	Playback
❚❚	Pause
▶▶ / ◀◀	Fast-forward/fast-reverse
▶❚ / ❚◀	Forward/reverse slow-motion playback
	The scene contains multi-audio languages.
	The scene contains multi-subtitle languages.
	The scene contains multi-angle views.

☼You can change the setting so that the on-screen guide icons do not appear on the TV. (☞ 24)

Messages shown on the display while listening to the XM Satellite Radio

NO SIGNL	No signal is received.
CHECK XM TUNER	The XM Mini-Tuner is not properly installed or the XM Mini-Tuner Home Dock is not properly connected.
CHECK ANTENNA	XM antenna is not properly connected.
LOADING	Loading the channel information and audio data.
OFF AIR	The selected channel is not currently broadcasting any signal.
UPDATING	Updating the latest encryption.
- - - - -	No text information for the selected channel is available.
Preset number and "- - - - -"	
CH- - -	The selected channel does not exist or is not subscribed yet.
Preset number and "CH- - -"	

Troubleshooting

Power does not come on.

➡ The power plug is not inserted securely. Plug it in securely.

Unable to operate the System from the remote control.

➡ The path between the remote control and the remote sensor on the center unit is blocked.

➡ The batteries are exhausted.

No sound is heard.

➡ The speaker connections and/or audio cord connections are incorrect or loose. (☞ 5, 8, 9)

➡ Headphones are connected.

The sound is distorted

➡ The speaker layout (☞ 6) does not match the speaker position mode (☞ 12).

No picture appears on the TV.

➡ The video cord connections are incorrect or loose. (☞ 7 – 9)

The picture does not fit the TV.

➡ The monitor type is not set correctly. (☞ 23)

No picture is displayed on the TV, the picture is blurred, or the picture is divided into two parts.

➡ The scanning mode is set to the progressive mode even though the TV connected to the System does not support progressive video input. (☞ 14)

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No picture is displayed on the TV or no sound comes out through the HDMI connection.

➡ The connected TV is not HDCP-compatible. ("HDCP ERR" appears on the display.)

➡ Disconnect the HDMI cable and connect it again, or use a shorter cable.

Video and audio are distorted.

➡ The disc is scratched or dirty.

➡ Audio/video files have not been properly copied on to the USB mass storage class device.

➡ A VCR is connected between the center unit and the TV. Connect the center unit and TV directly. (☞ 7)

VCD/SVCD operation cannot be performed.

➡ Some functions do not work for VCDs/SVCDs when the PBC function is used.

No sound is heard from the external components, or the video and audio do not match.

➡ The selected audio input is not appropriate. Select the audio input to match the component connected. (☞ 14)

The iPod does not play even though "CONNECT" appears on the display.

➡ The battery of the iPod is exhausted. Leave the iPod connected for at least 10 minutes.

The iPod cannot be operated from the System.

➡ The iPod battery charge function is deactivated. (☞ 28)

➡ The iPod is not compatible with the System. Check the compatibility. (☞ 3)

iPod is not charged.

➡ The source is not "IPod."

➡ The iPod battery charge function is deactivated. (☞ 28)

The broadcast is hard to hear because of noise.

➡ Antenna connections are incorrect or loose. (☞ 7)

➡ The AM loop antenna is too close to the System.

➡ The FM Antenna is not properly extended and positioned. (☞ 7)

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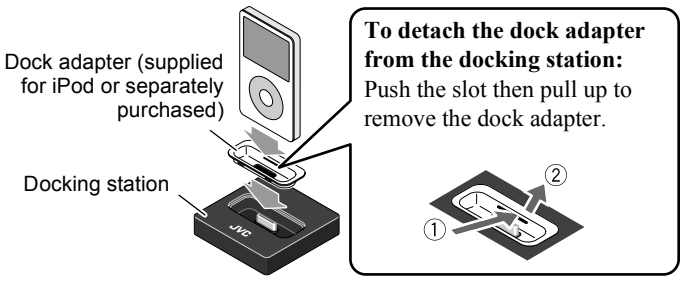
- HDCP is the abbreviation of "High-bandwidth Digital Content Protection," and is the high-reliable copy control technology licensed by Digital Content Protection, LLC.
- XM Ready® is a registered trademark of XM Satellite Radio Inc. All rights reserved.

Attaching the dock adapter to the docking station



- Disconnect the docking station from the center unit when attaching/detaching the dock adapter.
- Take care not to damage the terminal on the docking station when attaching/ detaching the dock adapter.

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Specifications

Center unit (XV-THD60/XV-THD50/XV-THD5/XV-THD4)

Output power

Front/Surround:
For XV-THD60/XV-THD50: 200 W per channel, RMS at 3 Ω at 1 kHz, with 10 % total harmonic distortion.
For XV-THD5: 180 W per channel, RMS at 3 Ω at 1 kHz, with 10 % total harmonic distortion.
For XV-THD4: 167 W per channel, RMS at 3 Ω at 1 kHz, with 10 % total harmonic distortion.

Center:
For XV-THD60/XV-THD50: 200 W, RMS at 3 Ω at 1 kHz, with 10 % total harmonic distortion.
For XV-THD5: 180 W, RMS at 3 Ω at 1 kHz, with 10 % total harmonic distortion.
For XV-THD4: 167 W, RMS at 3 Ω at 1 kHz, with 10 % total harmonic distortion.

Subwoofer:
For XV-THD60/XV-THD50: 200 W, RMS at 3 Ω at 100 Hz, with 10 % total harmonic distortion.
For XV-THD5: 200 W, RMS at 3 Ω at 100 Hz, with 10 % total harmonic distortion.
For XV-THD4: 167 W, RMS at 3 Ω at 100 Hz, with 10 % total harmonic distortion.

Audio section

Digital Input*1		
DIGITAL IN		
OPTICAL:		–21 dBm to –15 dBm (660 nm ±30 nm)
COAXIAL*2:		0.5 V(p-p)/75 Ω

Video section

Video System:		NTSC
Horizontal Resolution:		500 lines
Signal-to-Noise Ratio:		64 dB
Video Output Level (VIDEO OUT)		
Composite video:		1.0 V(p-p)/75 Ω
S-video	(Y):	1.0 V(p-p)/75 Ω
	(C):	0.286 V(p-p)/75 Ω
Component	(Y):	1.0 V(p-p)/75 Ω
	(P_B/P_R):	0.7 V(p-p)/75 Ω
Video Input Sensitivity/Impedance (VIDEO IN)		
Composite:		1.0 V(p-p)/75 Ω
S-video	(Y):	1.0 V(p-p)/75 Ω
	(C):	0.286 V(p-p)/75 Ω

HDMI

HDMI Input (VIDEO 1 IN)*2:	PASS THROUGH (up to 225 MHz)
HDMI Output (MONITOR OUT):	480p/720p/1080i

USB storage

USB Specification:	Compatible with USB 2.0 Full-Speed
Compatible Device:	Mass Storage Class
Compatible File System:	FAT16, FAT32
Bus Power Supply:	Max. 500 mA

Tuner section

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

General

Power Requirements:	AC 120 V ~, 60 Hz
Power Consumption:	160 W (during operation) 1.3 W (in standby mode)
Dimensions (W × H × D):	
435 mm × 115 mm × 270 mm (17-3/16 inches × 4-3/8 inches × 10-11/16 inches)	
Mass:	6.8 kg (15.0 lbs)

*1 *Corresponding to Linear PCM, Dolby Digital, and DTS Digital Surround (with sampling frequency — 32 kHz, 44.1 kHz, 48 kHz)*

*2 *Only for XV-THD60*

Subwoofer

For SP-THD6W (TH-D60)

Type:	Bass-Reflex Type
Speaker:	20 cm (7-7/8 inches) cone × 1
Power Handling Capacity:	200 W
Impedance:	3 Ω
Frequency Range:	28 Hz to 200 Hz
Sound Pressure Level:	74 dB/W•m
Dimensions (W × H × D):	
353.5 mm × 351 mm × 248 mm (13-15/16 inches × 13-7/8 inches × 9-13/16 inches)	
Mass:	8.5 kg (18.8 lbs)

For SP-THD5W (TH-D50/TH-D5/TH-D4)

Type:	Bass-Reflex Type
Speaker:	16 cm (6-5/16 inches) cone × 1
Power Handling Capacity:	200 W
Impedance:	3 Ω
Frequency Range:	30 Hz to 200 Hz
Sound Pressure Level:	74 dB/W•m
Dimensions (W × H × D):	
353.5 mm × 351 mm × 174 mm (13-15/16 inches × 13-7/8 inches × 6-7/8 inches)	
Mass:	6.3 kg (13.9 lbs)

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Satellite speakers (For TH-D60)

Front speakers (SP-THD6F)

Type:
2-Way Bass-Reflex Type (Magnetically Shielded Type)
Speaker: 8 cm (3-3/16 inches) cone × 1
3 cm (1-3/16 inches) dome × 1
Power Handling Capacity: 200 W
Impedance: 3 Ω
Frequency Range: 90 Hz to 20 000 Hz
Sound Pressure Level: 78 dB/W•m
Dimensions (W × H × D):
200 mm x 574 mm x 200 mm
(7-7/8 inches × 22-5/8 inches × 7-7/8 inches)
Mass: 2.4 kg (5.3 lbs) each

Center speaker (SP-THD6C)

Type:
1-Way 2-Speaker Bass-Reflex Type (Magnetically Shielded Type)
Speaker: 8 cm (3-3/16 inches) cone × 2
Power Handling Capacity: 200 W
Impedance: 3 Ω
Frequency Range: 90 Hz to 20 000 Hz
Sound Pressure Level: 83 dB/W•m
Dimensions (W × H × D):
435 mm × 99 mm × 93.5 mm
(17-3/16 inches × 3-15/16 inches × 3-11/16 inches)
Mass: 2.0 kg (4.5 lbs)

Surround speakers (SP-THD6S)

Type:
1-Way Bass-Reflex Type (Magnetically Shielded Type)
Speaker: 8 cm (3-3/16 inches) cone × 1
Power Handling Capacity: 200 W
Impedance: 3 Ω
Frequency Range: 90 Hz to 20 000 Hz
Sound Pressure Level: 75 dB/W•m
Dimensions (W × H × D):
98.5 mm × 214.5 mm × 93.5 mm
(3-15/16 inches × 8-1/2 inches × 3-11/16 inches)
Mass: 0.85 kg (1.9 lbs) each

Satellite speakers (For TH-D50/TH-D5/ TH-D4)

Front speakers (SP-THD5F)

Type:
1-Way Bass-Reflex Type (Magnetically Shielded Type)
Speaker: 8 cm (3-3/16 inches) cone × 1
Power Handling Capacity: 200 W
Impedance: 3 Ω
Frequency Range: 90 Hz to 20 000 Hz
Sound Pressure Level: 79 dB/W•m
Dimensions (W × H × D):
98.5 mm × 214.5 mm × 93.5 mm
(3-15/16 inches × 8-1/2 inches × 3-11/16 inches)
Mass: 1.0 kg (2.2 lbs) each

Center speaker (SP-THD5C)

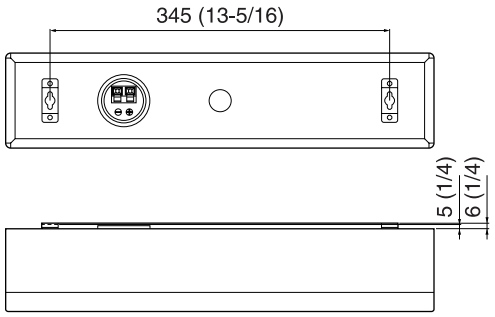
Type:
1-Way 2-Speaker Bass-Reflex Type (Magnetically Shielded Type)
Speaker: 8 cm (3-3/16 inches) cone × 2
Power Handling Capacity: 200 W
Impedance: 3 Ω
Frequency Range: 90 Hz to 20 000 Hz
Sound Pressure Level: 83 dB/W•m
Dimensions (W × H × D):
435 mm × 99 mm × 93.5 mm
(17-3/16 inches × 3-15/16 inches × 3-11/16 inches)
Mass: 2.0 kg (4.5 lbs)

Surround speakers (SP-THD5S)

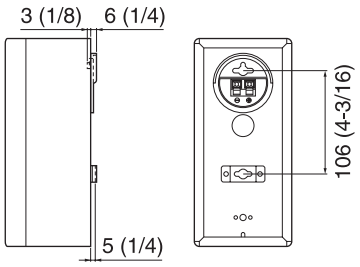
Type:
1-Way Bass-Reflex Type (Magnetically Shielded Type)
Speaker: 8 cm (3-3/16 inches) cone × 1
Power Handling Capacity: 200 W
Impedance: 3 Ω
Frequency Range: 90 Hz to 20 000 Hz
Sound Pressure Level: 75 dB/W•m
Dimensions (W × H × D):
98.5 mm × 214.5 mm × 93.5 mm
(3-15/16 inches × 8-1/2 inches × 3-11/16 inches)
Mass: 0.85 kg (1.9 lbs) each

Dimensions of the wall-mount attachment on the center and surround speakers:

SP-THD6C/SP-THD5C



SP-THD6S/SP-THD5S



Unit: mm (inch)

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PARTS	LABOR
1 YR	**90 DAYS**

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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.

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2. Initial installation, installation and removal from cabinets or mounting systems.
3. Operational adjustments covered in the Owner's Manual, normal maintenance, video and audio head cleaning;
4. Damage that occurs in shipment, due to act of God, and cosmetic damage;
5. Signal reception problems and failures due to line power surge;
6. User Removal Memory Devices/Video Pick-up Tubes/CCD Image Sensors are covered for 90days from the date of purchase;
7. Accessories;
8. Batteries (except that Rechargeable Batteries are covered for 90 days from the date of purchase);
9. Products used for commercial purposes, including, but not limited to rental.
10. Loss of data resultant from malfunction of hard drive or other data storage device.

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For customer use:

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

Model No. : _____ Serial No. : _____

Purchase date : _____ Name of dealer : _____

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Remember to retain your Bill of Sale for Warranty Service.

Do not attempt to service the product yourself

Caution

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

BT-51005-9
(0904)

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TH-D60/TH-D50/
TH-D5/TH-D4

DVD DIGITAL THEATER SYSTEM

JVC

EN

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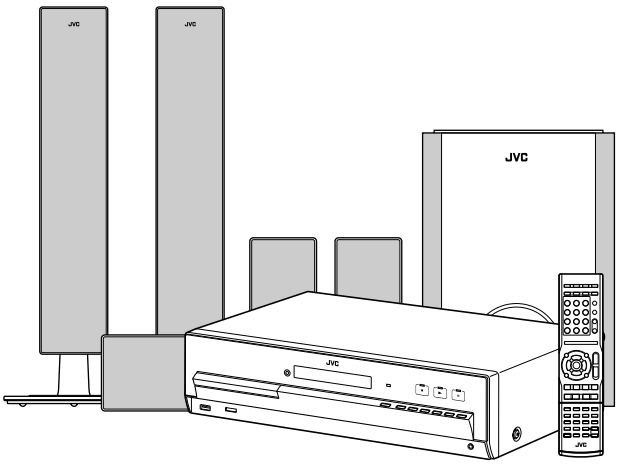
DVD DIGITAL THEATER SYSTEM

TH-D60WM

Consists of XV-THD60WM, SP-THD60WMW, SP-THD6F, SP-THD6C and SP-THD6S



DVD AUDIO/VIDEO
COMPACT disc SUPER VIDEO
dts Digital Surround
DOLBY DIGITAL PRO LOGIC II
DivX
DivX ULTRA
HDMI
XM READY
Made for iPod
MPEG-4 ASF PLAYBACK
Digital Direct Progressive Scan

INSTRUCTIONS

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Model No. _____

Serial No. _____

LVT1704-018A
[J]

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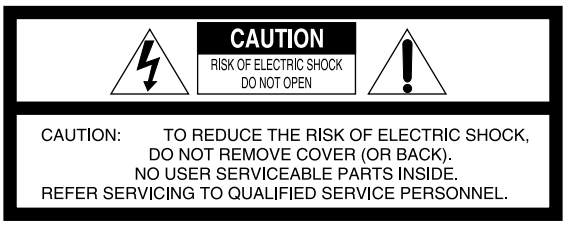
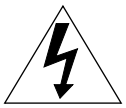
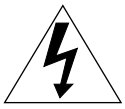




The lightning flash with arrowhead symbol, within an equilateral triangle is intended to alert the user to the presence of uninsulated "dangerous voltage" within the product's enclosure that may be of sufficient magnitude to constitute a risk of electric shock to persons.

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.



Le symbole de l'éclair à l'intérieur d'un triangle équilatéral est destiné à alerter l'utilisateur sur la présence d'une "tension dangereuse" non isolée dans le boîtier du produit. Cette tension est suffisante pour provoquer l'électrocution de personnes.

Le point d'exclamation à l'intérieur d'un triangle équilatéral est destiné à alerter l'utilisateur sur la présence d'opérations d'entretien importantes au sujet desquelles des renseignements se trouvent dans le manuel d'instructions.

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

CAUTION — ⏻/I button!

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

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

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

The power can be remote controlled.

ATTENTION — Touche ⏻/I

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

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

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

L'alimentation peut être télécommandée.

CAUTION

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

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

ATTENTION

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

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

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.

[European Union only]
[Union européenne seulement]

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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.

CAUTION

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

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:

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

ATTENTION:

Une pression acoustique excessive des écouteurs ou du casque d'écoute peut entraîner une perte auditive.

IMPORTANT FOR LASER PRODUCTS

1. CLASS 1 LASER PRODUCT
2. **CAUTION:** Do not open the top cover or cabinet. There are no user serviceable parts inside the unit; leave all servicing to qualified service personnel.
3. **CAUTION:**
   (For U.S.A.) Visible and/or invisible class II laser radiation when open. Do not stare into beam.
   (For Canada) Visible and/or invisible class 1M laser radiation when open. Do not view directly with optical instruments.
4. REPRODUCTION OF LABEL: CAUTION LABEL, PLACED INSIDE THE UNIT.

IMPORTANT POUR PRODUITS LASER

1. PRODUIT LASER CLASSE 1
2. **ATTENTION:** N'ouvrez pas le couvercle supérieur ni le coffret de l'appareil. Il n'y a aucune pièce réparable par l'utilisateur à l'intérieur de l'appareil; confiez toute réparation à un personnel qualifié.
3. **ATTENTION:**
   (Pour les Etats-Unis) Radiation laser de classe II visibles et/ou invisible si l'appareil est ouvert. Ne regardez pas le rayon.
   (Pour le Canada) Rayonnement laser visible et/ou invisible de classe 1M une fois ouvert. Ne pas regarder directement avec des instruments optiques.
4. REPRODUCTION DE L'ÉTIQUETTE: ÉTIQUETTE DE PRÉCAUTION PLACÉE À L'INTERIEUR DE L'APPAREIL.

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.

31.2 kg/69 lbs

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How to read this manual

The following icons and illustrations are used to make the explanations simple and easy-to-understand.

Icons for System operations	
	Operations from the center unit
	Operations from the remote control
	The function can be operated from the on-screen bar (☞ 21).
Icons for the references and notes	
	Reference page for the function/ operation
	Caution for the function/operation
	Note for the function/operation
	Tip for the function/operation
Icons for operating information	
	The function is available while playing.
	The function is available while paused.
	The function is available while stopped.
	There is a time limit on performing the target operation.
Illustrations for button operations	
	Press the button briefly.
	Press the button repeatedly.
	Press and hold the button.
	Press button Ⓐ, then press button Ⓑ.
	Press button Ⓑ while holding button Ⓐ.

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Before using this System

Precautions

There are no user-serviceable parts inside. If anything goes wrong, unplug the power cord and consult your dealer.

Notes on installing the System

- Select a location which is level, dry and neither too hot nor too cold between 5°C and 35°C (41°F and 95°F).
- Do not install the System in a location subject to vibrations.
- Do not put heavy objects on the System.

Avoid moisture, water, dust, and high temperatures

- Do not install the System in moist or dusty locations.
- If water gets inside the System, turn off the power and remove the plug from the wall outlet, then consult your dealer. Using the System in this state may cause a fire or electrical shock.
- Do not expose the System to direct sunlight or place it near a heating device.

To prevent malfunctions or damage to the System

- Do not insert any metallic objects, such as wires, hairpins, coins, etc. into the System.
- Do not block the vents.

Notes on the power cord

- When you are away on travel or otherwise for an extended period of time, remove the plug from the wall outlet. A small amount of power is always consumed while the power cord is connected to the wall outlet.
- When unplugging the System from the wall outlet, always pull the plug, not the power cord.
- Disconnect the power cord before cleaning or moving the System.
- Do not modify, twist or pull the power cord, or put anything heavy on it. Doing so may cause fire, electric shock, or other accidents.

About copyright laws

Observe the copyright laws in your country before recording from original sources. Recording of copyrighted material may infringe copyright laws.

About the copyguard system

The discs are protected by the copyguard system. When connecting the System to a TV via a VCR, or to a TV with a built-in VCR, the copyguard system activates and distortion of the picture may occur.

Notes on installing and using the speakers

- Place the speakers and subwoofer on a flat and level surface.
- The speakers are magnetically shielded to avoid color distortions on TVs. If the color on a TV is distorted, perform the following procedure:
  – 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 procedure. If this happens, move the speakers away from the TV.
- The subwoofer is not magnetically shielded. To avoid color distortion, do not place it near the TV or monitor.
- When moving the speakers and subwoofer, do not pull the speaker cords. Doing so may cause the speakers and/or subwoofer to fall over, causing damage or injury.
- When installing the speakers on a wall, be sure to have them installed by qualified personnel. DO NOT install the speakers on a wall by yourself.
- Do not lean against the speakers, as they could fall down or break, possibly causing an injury. Be especially careful that children do not lean against them.

About the adjustment of volume

Always set the volume to the 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.

To clean the System

- Use a soft cloth. Follow the relevant instructions on the use of chemically-coated cloths.
- If the System is heavily stained, apply a small amount of water or neutral detergent to the cloth and wipe clean, then wipe with a dry cloth.
- Do not use benzene, thinner or other organic solvents and disinfectants. These may cause deformation or discoloring.

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Playable discs/devices/files

- Some discs/files may require operations that differ from those explained in this manual.
- Some discs/devices/files may not be recognized or played back correctly due to their characteristics.

Playable disc types

Type of disc	Types of media
DVD Video	• Discs on the market • DVD-R/-R DL/-RW • +R/+RW • DualDisc* (DVD side only)
DVD Audio	• Discs on the market • DVD-R/-R DL/-RW • +R/+RW
Super Video CD (SVCD)/Video CD (VCD)	• Discs on the market • CD-R/-RW
Audio CD	• Discs on the market • CD Text (Audio part only) • CD-R/-RW
A disc recorded in the DVD VR format	• DVD-R/-RW
Audio/video files on a disc (☞ 4)	• DVD-R/-R DL/-RW in UDF Bridge format • CD-R/-RW in ISO 9660 format

- This System accommodates the NTSC system, and also can play discs/files recorded with PAL system. Note that an PAL video signal on a disc/file is converted to the NTSC signal and output.
- 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.
- DVD-R/-RW: This System does not support "multi-border" discs.
- CD-R/-RW:
  – This System supports "multi-session" discs (up to 20 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 "1."

Ex.:

Unplayable discs—unwarranted

Playing back the following discs generates noise and damages the speakers.

- DVD-ROM, DVD-RAM, DualDisc* (non-DVD side)
- CD-ROM, CD-I (CD-I Ready), Photo CD, SACD
- Unfinalized discs (except DVD VR)
- Discs with an irregular shape or discs with tape, stickers or paste on either the label side or playback side
- Warped, dirty, or scratched discs

* ***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.***

Playable digital devices

JVC bears no responsibility for any loss of data in an iPod and/or USB mass storage class device while using this System.

iPod

iPod model	AUDIO	VIDEO
iPod nano 1GB/2GB/4GB	√	
iPod nano (2nd Generation) 2GB/4GB/8GB	√	
iPod mini 4GB/6GB	√	
iPod (4th Generation) 20GB/40GB	√	
iPod photo (4th Generation) 20GB/30GB/40GB/60GB	√	√ *
iPod video (5th Generation) 30GB/60GB/80GB	√	√

* *Only still pictures are available.*

- If the iPod does not play correctly, update your iPod software to the latest version. For details about updating your iPod, check on the Apple web site <http://www.apple.com>.

USB mass storage class device

A USB flash memory device, hard disk drive, multimedia card reader, digital camera, etc. can be used with this System through a USB connection.

- This System is compatible with USB 2.0 Full-Speed.
- This System cannot recognize a USB mass storage class device whose rating exceeds 5 V/500 mA.

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Playable file types

The following files in a disc or a USB mass storage class device can be played back.

Type of file	Playable files	Extensions
Audio	MP3	<.mp3>
	WMA	<.wma>
	WAV	<.wav>
Picture	JPEG	<.jpg>, <.jpeg>
Movie	ASF	<.asf>
	MPEG-1	<.mpg>, <.mpeg>
	MPEG-2	<.mpg>, <.mpeg>, <.mod>
	DivX (6.x, 5.x, 4.x and 3.11)	<.divx>, <.div>, <.avi>

- If a file on a USB mass storage class device exceeds the following conditions, it may not be played back correctly:
  – Maximum data transfer rate: 2 Mbps
  – Maximum frame rate: 30 fps for progressive
  – Maximum file size: 2 GB
- The System recognizes up to 150 tracks (files) per group, and 99 groups per disc/device. The total number of tracks (files) that the System can detect is 4000.

Information about the recording conditions for the files on a disc/ device

MP3/WMA files

- The System supports MP3/WMA files recorded at 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.
- It is recommended to record each file at a sample rate of 44.1 kHz and at a data transfer rate of 128 (96*) kbps.

* *For WMA only*

WAV files

- The System supports WAV files recorded at a quantization rate of 8 or 16 bit and a sampling frequency of 8 kHz, 11.025 kHz, 12 kHz, 16 kHz, 22.05 kHz, 24 kHz, 32 kHz, 44.1 kHz, or 48 kHz.
- It is recommended to record each file at a sample rate of 44.1 kHz and at a quantization rate of 16 bit Linear PCM.

JPEG files

- It is recommended 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.

ASF files

- 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

MPEG1/MPEG2 files

- The stream format should conform to the 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 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.

DivX files

- 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).
- Files encoded in the interlaced scanning mode may not be played back correctly.

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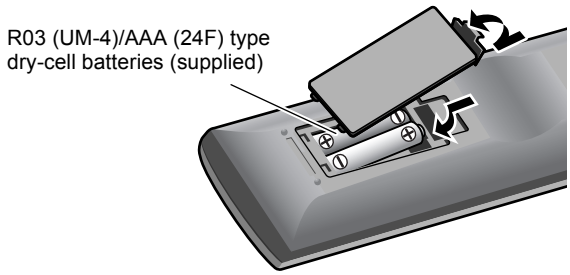
Getting started

Checking the supplied accessories

If anything is missing, contact your dealer immediately.

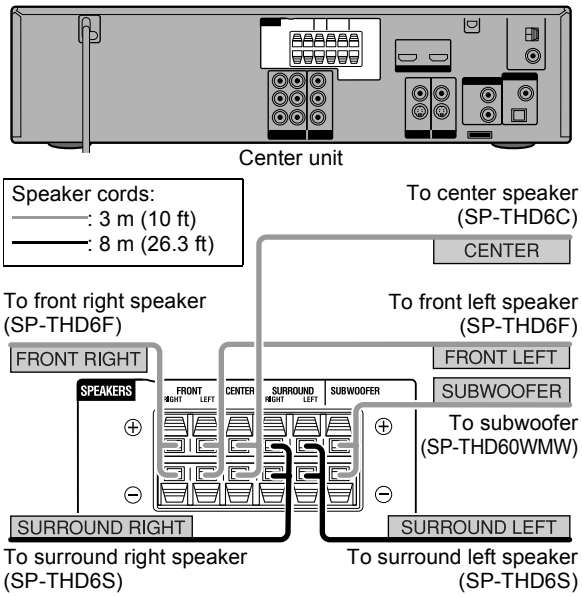
- Remote control (x 1)
- Batteries (x 2)
- FM antenna (x 1)
- AM loop antenna (x 1)
- Composite video cord (x 1)
- Docking station for iPod (x 1)
- Speaker cords: 3 m (10 ft) (x 4), 8 m (26.3 ft) (x 2)
- Feet for surround speakers (x 8)
- Screws: M5 x 85 mm (3-3/8 inches) (x 6)

Putting batteries into the remote control



- Do not expose batteries to heat or flame.
- If the range or effectiveness of the remote control decreases, replace both batteries.

Connecting the speakers and subwoofer

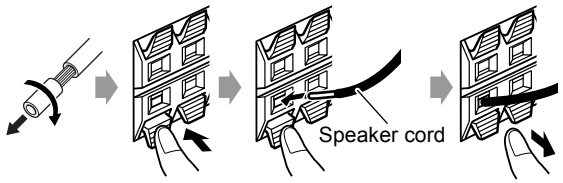


- If you connect speakers other than those supplied for the System, use speakers of the same speaker impedance (SPEAKER IMPEDANCE) indicated on the rear of the center unit.
- DO NOT connect more than one speaker to one speaker terminal.

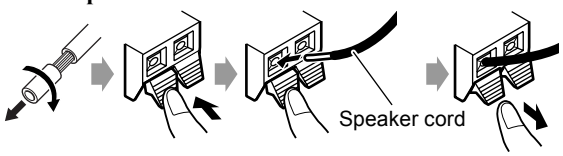
Connecting the speaker cords

Connect the speaker cords both to the center unit and to each speaker.

On the center unit:



On the speaker:



- Connect the black cords to the ⊖ terminals.
- Connect the white cords to the ⊕ terminals.

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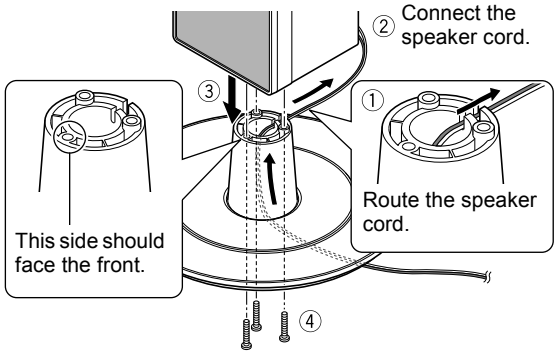
Attaching the base plates—required for the front speakers (SP-THD6F) only



Use the supplied screws (M5 x 85 mm/3-3/8 inches) to attach the base plate to the speaker.

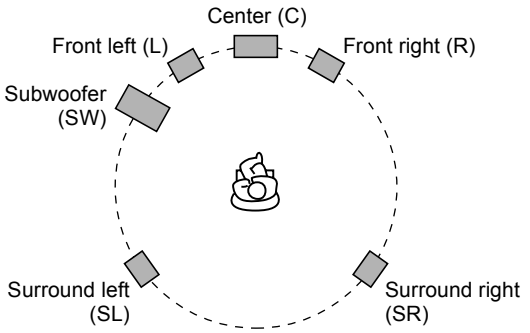
Speaker layout

You can enjoy surround sound by placing the speakers as illustrated (Speaker layout A or B).

- Do not place any obstacle near the left side of the subwoofer to make its speaker unit, which is installed in the left of its enclosure, work properly.

Speaker layout A

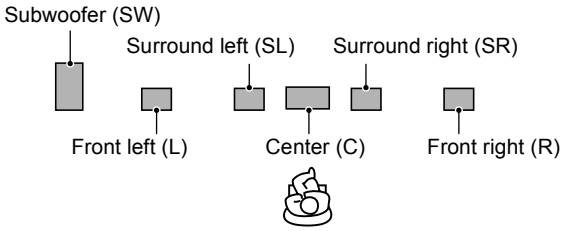
- Select “S.SPK R” as the speaker position mode for this layout. (☞ 12)



- To obtain the best possible surround sound from this System, place all the speakers except the subwoofer at the same distance from the listening position. If it is impossible, adjust the delay time from DELAY menu. (☞ 24)

Speaker layout B

- Select “S.SPK F” as the speaker position mode for this layout. (☞ 12)

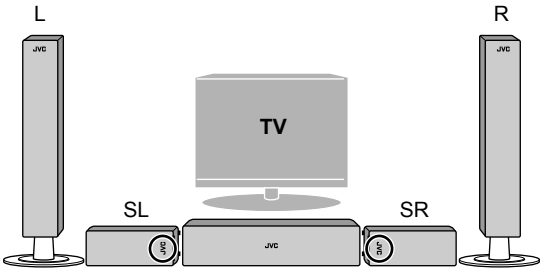


- Place the surround speakers close to the center speaker.
- It is recommended to place the surround speakers horizontally (see below).

When placing the surround speakers horizontally

Lay the surround speakers horizontally so that the JVC logos are positioned as illustrated below.

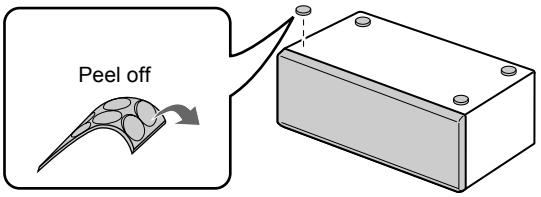
Ex.:



- You can turn the JVC logos to make them legible.

Attaching the feet to the surround speakers

When placing the surround speakers horizontally, attach the feet to the bottom of the speakers as illustrated.



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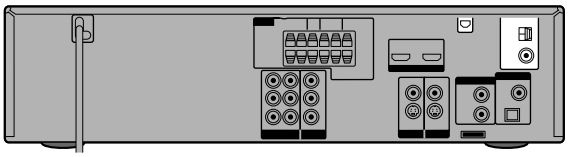
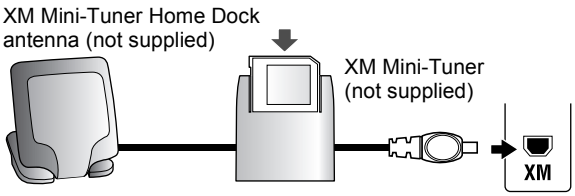
Connecting the antennas



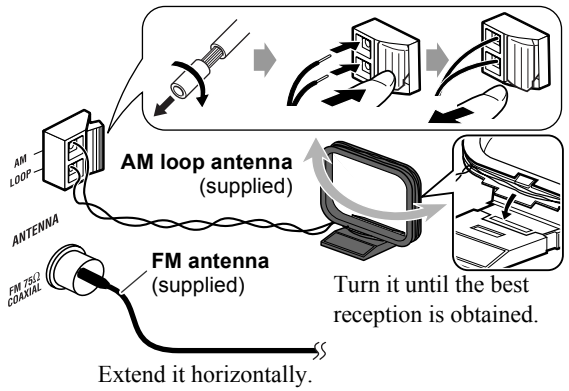
XM Mini-Tuner system



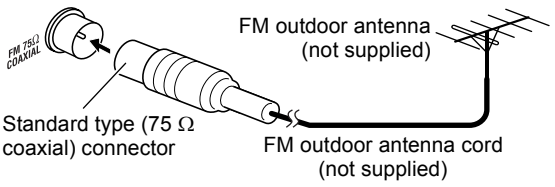
- For better reception, install the XM Mini-Tuner Home Dock antenna in the following location:
  – Near a south-facing window with aiming the antenna at the sky directly
  – Where “Channel 1” can be heard clearly
  – Where the Antenna Aiming display shows a value higher than 0 for either satellite or terrestrial signal strength (☞ 25)

AM and FM antennas

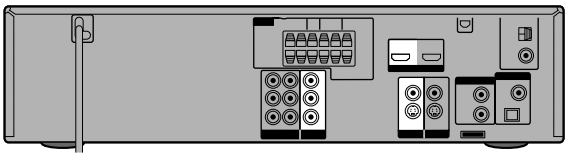
- Make sure the antenna conductors do not touch any other terminals, connecting cords or power cords.



For better FM reception



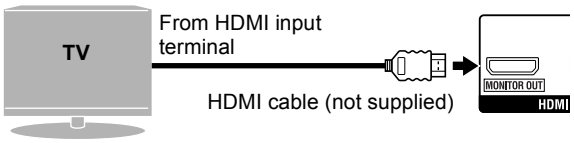
Connecting a TV



Connect the TV to the appropriate video out jacks to view the playback picture.

- The picture quality order is as follows:
  HDMI > Component video > S-video > Composite video
- Make the following settings after connecting the TV:
  – Scanning mode (☞ 14)
  – MONITOR TYPE (☞ 23)

Connection using the HDMI terminal



- You can make the following settings for the TV when the HDMI connection is used:
  – HDMI DVI COLOR (☞ 23)
  – HDMI OUT (☞ 23)
  – HDMI AUDIO OUT (☞ 24)
  – DOWN MIX (☞ 24)*
- Use a certified HDMI cable, which has the HDMI logo.
- You can use a monitor with a DVI terminal by connecting with a DVI-HDMI conversion cable.
- When you play HDCP (High-Bandwidth Digital Content Protection) source, allow a few seconds for the sound and picture to be transmitted to the speakers and TV while the confirmation process is completed.
- On some TV, no sound may come out during playback of sources such as DVD Audio even when the HDMI AUDIO OUT setting is “ON” (☞ 24).

* *This setting is available only when the speaker position mode is set to “S.SPK F” (☞ 12).*

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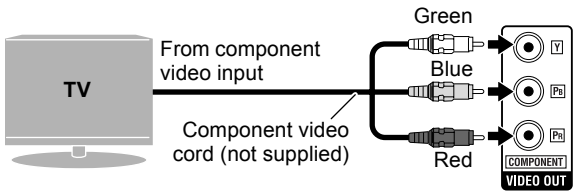
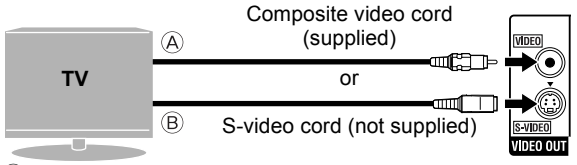
Do not connect the power cord until all other connections have been made.

Connection using the component video jacks



- For the BNC connection, use a plug adapter (not supplied).

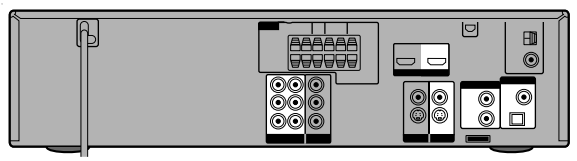
Connection using the S-video or composite video jack



Ⓐ From composite video input
Ⓑ From S-video input

Align the ▲ marks.

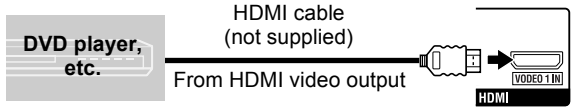
Connecting external components



Connection for "VIDEO1"

- Select "VIDEO1" as the source (☞ 11) for playing a component connected as follows.

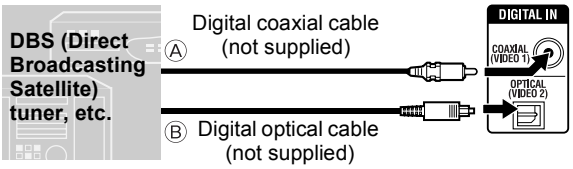
Video connection



- No sound signal comes into HDMI VIDEO 1 IN terminal. Make audio connection to listen to the sound (see the right column).

Audio connection

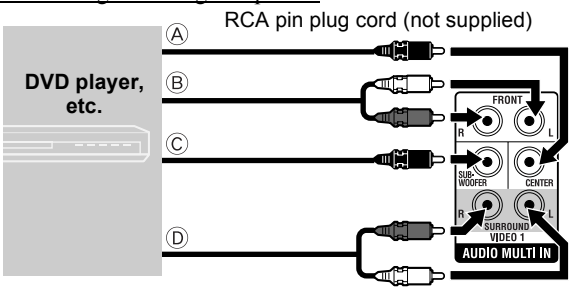
Connecting a digital component



Ⓐ From digital coaxial output
Ⓑ From digital optical output

- Select the appropriate audio input setting ("OPT" or "COAX") before playing back. (☞ 14)

Connecting an analog component



Ⓐ From center channel audio output
Ⓑ From front left/right channel audio outputs
Ⓒ From subwoofer output
Ⓓ From surround left/right channel audio outputs

- To listen to the sound from AUDIO MULTI IN jacks, perform the following procedure:
  – Place the speakers by following "Speaker layout A" (☞ 6).
  – Select "S.SPK R" as the speaker position mode. (☞ 12)
- Select "5.1CH" as the audio input setting before playing back. (☞ 14)

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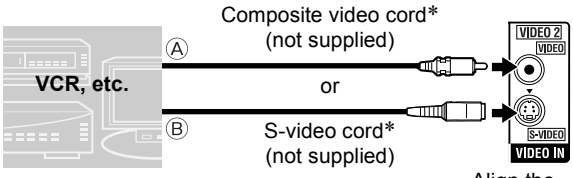
Do not connect the power cord until all other connections have been made.

Connection for "VIDEO2"

- Select "VIDEO2" as the source (☞ 11) for playing a component connected as follows.

Video connection



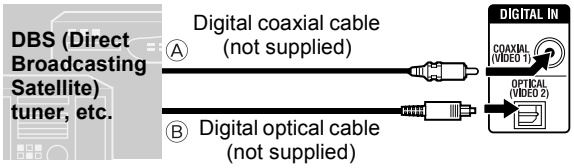
Align the ▲ marks.

Ⓐ From composite video output
Ⓑ From S-video output

* *Connect an external component with the same kind of cable as the one used to connect TV. (☞ 8)*

Audio connection

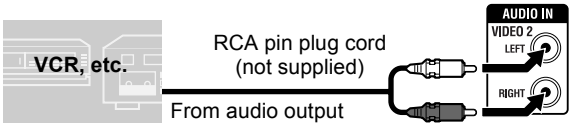
Connecting a digital component



Ⓐ From digital coaxial output
Ⓑ From digital optical output

- Select the appropriate audio input setting ("OPT" or "COAX") before playing back. (☞ 14)

Connecting an analog component



- Select "2CH" as the audio input setting before playing back. (☞ 14)

Connecting the AC power cord

Plug in the System only after all the connections have been completed.

Available video output terminals for each source

Terminal \ Source	DVD	USB	iPod	VIDEO1	VIDEO2
HDMI	√	√		√	
COMPONENT	√	√			
S-VIDEO	√	√	√		√
VIDEO (Composite video)	√	√	√		√

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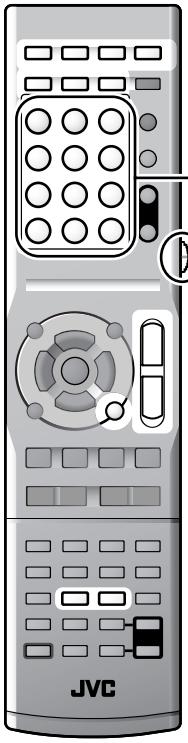
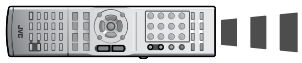
Basic and common operations



How to use the number buttons

To select 3: Press 3.
To select 10: Press 10.
To select 14: Press ≧10, 1, then 4.
To select 24: Press ≧10, 2, then 4.
To select 40: Press ≧10, 4, then 0.
To select 114: Press ≧10, ≧10, 1, 1, then 4.

Set the remote control mode before operation.



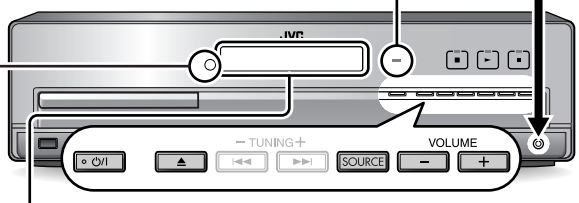
Point at the remote sensor directly.

Listening with headphones

When the headphones is connected, the System automatically deactivates the speakers and cancels the surround mode (☞ 13) temporarily.
• "H.PHONE" appears on the display.

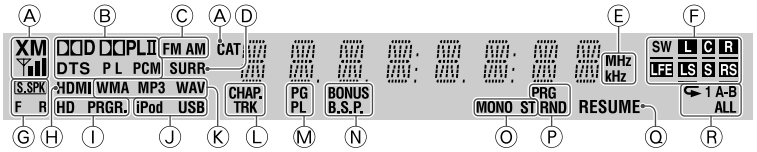
Be sure to turn down the volume before connecting or putting on the headphones.

STANDBY lamp:
• Goes off when the System is turned on.
• Lights when the System is turned off.



Display

To change the display brightness



Ⓐ XM Satellite Radio indicators (☞ 25)
XM: Lights when "XM" is selected as the source.
: Shows XM Satellite Radio signal strength.
CAT: Lights while selecting a channel by category.
Ⓑ Digital audio signal format indicators
Ⓒ FM/AM tuner source indicators (☞ 27)
Ⓓ Lights when one of the surround modes is activated. (☞ 13)
Ⓔ Frequency unit indicators for FM/AM
Ⓕ Source signal and speaker signal indicators
L (front left), **C** (center), **R** (front right), **LFE** (low frequency effect), **LS** (surround left), **RS** (surround right), **S** (monaural surround)**:** Light when the signal comes in for the digital input or when the System is ready to receive the signal for the analog input.
SW (subwoofer)**:** Always lights.
_: Lights while reproducing the channel's sound through the corresponding speaker.
Ⓖ Speaker position mode indicators (☞ 12)
Ⓗ Lights when both the System and the TV (with HDMI connection) are ready to communicate each other.
Ⓘ Scanning mode indicators (☞ 14)
HD: Lights when "720P" or "1080I" is selected.
PRGR.: Lights when the progressive scanning mode is activated.
Ⓙ Digital device indicators
Ⓚ File type indicators
Ⓛ Lights when the chapter (**CHAP.**) or track (**TRK**) number is displayed.
Ⓜ Lights when selecting a program number (**PG**) or playlist number (**PL**) of a DVD VR disc by using TITLE/GROUP. (☞ 17)
Ⓝ Special playback indicators for DVD Audio (☞ 20)
BONUS: Lights when a bonus group is detected.
B.S.P: Lights when browsable still pictures are detected.
Ⓞ FM reception mode indicators (**MONO:** monaural / **ST:** stereo) (☞ 27)
Ⓟ Play mode indicators (**PRG:** program play / **RND:** random play) (☞ 18)
Ⓠ Lights when the System memorizes the position where the playback is interrupted. (☞ 16)
Ⓡ Repeat mode indicators (☞ 18, 21)

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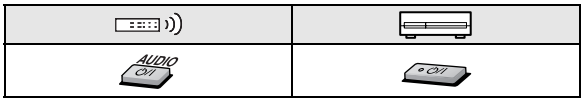
See page 10 for button locations.

Turning the power on or off



To turn off the System by using the sleep timer

– – (off) → **10** → **20** → **30** → **60** → **90** → **120** → **150** → **180** → (back to the beginning)
(unit: minutes)

To check the remaining time, press the button once.

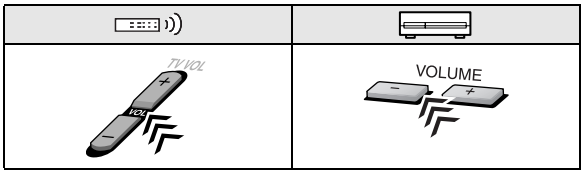
Selecting the source

To do		Indication	☞📖
Play back a disc	DVD	DVD	15
Play back a file on a USB mass storage class device	USB MEMORY	USB	15
Play back an iPod	iPod	IPod	28
Listen to an XM Satellite Radio, FM, or AM station	FM/AM/XM	XM, FM, or AM	25, 27
Play back an external component	VIDEO1 DBS	VIDEO1*	29
	VIDEO2 VCR	VIDEO2*	29

To select the source from the center unit

* *Make sure that the appropriate audio input setting have been made for the source (VIDEO1 or VIDEO2). (☞📖 14)*

Adjusting the volume



To turn off the volume instantly

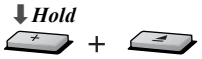
"MUTING" appears on the display.

To restore the volume, press the button again, or adjust the volume level.

Prohibiting disc ejection

1 Turn off the System.

2 Lock the disc tray.



(On the center unit)

"LOCKED" appears on the display.

To unlock the disc tray, perform the above procedure again. "UNLOCKED" appears on the display.

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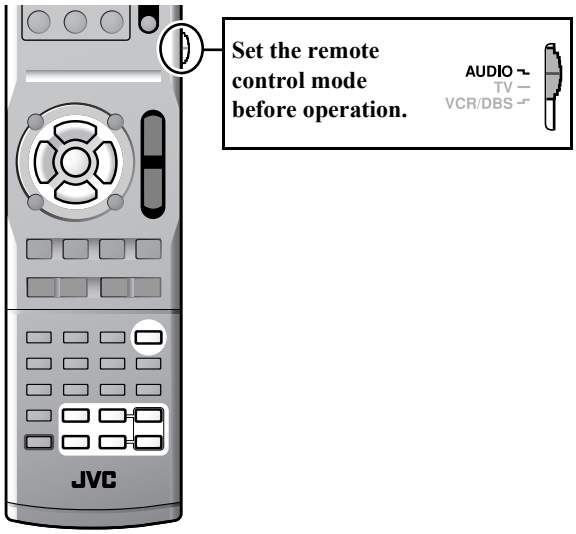
Sound and monitor settings



Sound settings and adjustments

Selecting the speaker position mode

Select the speaker position mode according to your speaker layout (☞ 6).

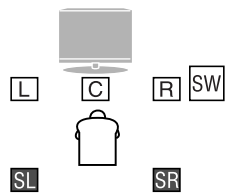
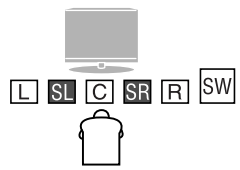
1 Turn off the System. (☞ 11)

2 ↓*Hold* SETTING

S.SPK R

3 Select the appropriate speaker position mode according to your speaker layout (☞ 6).

SETTING

S.SPK R	For speaker layout A  • The S.SPK R indicator lights on the display.
S.SPK F	For speaker layout B  • The S.SPK F indicator lights on the display.

- As the speaker position mode is changed, the following settings are also changed automatically:
  - The output level settings of the speakers and subwoofer (see below) are initialized.
  - The surround mode (☞ 13) is set to "AUTO SUR."

Adjusting the output level of the speakers and subwoofer

1 SPK LEVEL

The items you can adjust differ depending on the selected speaker position mode (see the left column).

- **When the speaker position mode is "S.SPK R":**

  FRNT L → FRNT R → CENTER → SURR L → SURR R → SUBWFR → (back to the beginning)

- **When the speaker position mode is "S.SPK F":**

  CENTER → SURR → SUBWFR → (back to the beginning)

2 Adjust the output level.

LEVEL

- Different output level settings can be stored for the following two groups of sources:
  - DVD, USB, IPod, VIDEO1*[1], VIDEO2
  - FM, AM and VIDEO1*[2]
- When the source is "XM," this adjustment is not available.
- You can also make adjustments from the LEVEL menu (☞ 24) when the speaker position mode is "S.SPK R."

*[1] *With "COAX" or "OPT" selected as the audio input setting (☞ 14)*

*[2] *With "5.1CH" selected as the audio input setting (☞ 14)*

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Adjusting the bass and treble sounds

1

TRE	Adjusts the treble sound
BASS	Adjusts the bass sound

2 Adjust the level.

Using the surround mode

Select one of the available surround modes.

The surround modes you can select depend on the playback source and the selected speaker position mode (☞ 12). For details on each surround mode, see "Available surround modes" on the right column.

- **During 2-channel playback with "S.SPK R" speaker position mode:**

  AUTO SUR → MOVIE → MUSIC → STADIUM → ALL ST → OFF → (back to the beginning)

  - When the source is "FM" or "AM," you can only select "ALL ST."

- **During multi-channel playback with "S.SPK R" speaker position mode:**

  AUTO SUR → currently selected mode* **→ OFF →** (back to the beginning)

  * *When "AUTO SUR" is selected, the System automatically selects a proper multi-channel surround mode, such as "DOLBY D (Dolby Digital)" or "DTS (DTS Digital Surround)."*

- **During playback with "S.SPK F" speaker position mode:**

  AUTO SUR → MOVIE → WIDE/2CH → SUPER W → OFF → (back to the beginning)

  - When the source is "FM" or "AM," the surround mode cannot be activated.

To check the surround mode currently selected, press SURROUND once.

- When the source is "VIDEO1" with "5.1CH" selected as the audio input setting (☞ 14), the surround mode setting is ineffective. All incoming signals are emitted through the corresponding speakers. "MULTI CH" appears on the display.
- When the source is "XM," the surround mode cannot be changed.
- During playback of ASF, MPEG-2, or MPEG-1 files, the surround mode setting is ineffective.
- For DVD Audio, when "LR ONLY" appears on the display, activate the surround mode for the multi-channel reproduction.

Available surround modes

Surround mode for "S.SPK R"	
AUTO SUR (Auto Surround)	Selects an appropriate surround mode according to the incoming signals
MOVIE (Dolby Pro Logic II Movie)	For movie sources
MUSIC (Dolby Pro Logic II Music)	For music sources
STADIUM	Adds clarity and spreads the sound, as if in an outdoor stadium
ALL ST (All Channel Stereo)	Reproduces a larger stereo sound field using all the activated speakers
OFF (Off)	Deactivates surround mode
Surround mode for "S.SPK F"	
AUTO SUR (Auto Surround)	Selects an appropriate surround mode according to the incoming signals
MOVIE	For movie or multi-channel music sources
WIDE/2CH	For 2-channel music sources
SUPER W (Super Wide)	Reproduces broader sound field
OFF (Off)	Deactivates surround mode

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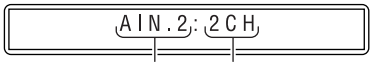
See page 12 for button locations.

Setting the audio input for external components

Set the audio input of the external component for "VIDEO1" or "VIDEO2."

1 SETTING



Item Current setting

2 Select a source you want to set the audio input for.

AIN.1	For "VIDEO1"
AIN.2	For "VIDEO2"

3 Select an appropriate audio input according to the audio connection. (☞ 8, 9)

2CH	For connection via the AUDIO IN jacks
5.1CH	For connection via the AUDIO MULTI IN jacks
COAX	For connection via the COAXIAL jack
OPT	For connection via the OPTICAL terminal

- Selectable settings for the each source:
  – "VIDEO1": 5.1CH*1, COAX*2, and OPT*2
  – "VIDEO2": 2CH, COAX*2, and OPT*2
- Make the audio input setting for both "VIDEO1" and "VIDEO2."

*1 *When the speaker position mode is set to "S.SPK F," "5.1CH" is not selectable.*

*2 *It is not possible to select the same audio input setting for "VIDEO1" and "VIDEO2." For example, when "COAX" is assigned to "VIDEO1," it is not selectable for "VIDEO2."*

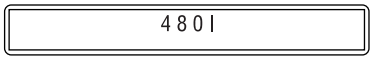
Scanning mode setting

Select the scanning mode according to the type of TV and connection method.

- To use the progressive mode, connect the TV to the HDMI MONITOR OUT terminal or COMPONENT jacks*1. (☞ 7)

1 Select "DVD" or "USB" as the source. (☞ 11)

2 Hold SCAN MODE



3 Select an appropriate scanning mode, then confirm the selection.

Select Confirm

480I*2	To see the picture in interlaced mode.
1080I*3	
480P	To see the picture in progressive mode.
720P*3	
AUTO*3	The System automatically emits the video signal to get the best picture quality on your TV.

- You can get better picture quality in the following orders:
  – 1080I > 720P
  – 480P > 480I
- **When the picture is not shown correctly,** change the scanning mode to the interlaced mode.
- When the TV is connected through S-VIDEO or VIDEO jack, the scanning mode setting has no effect.

*1 *Activate progressive mode only when your TV supports progressive video signals.*

*2 *Selectable only when the TV is connected via COMPONENT jacks. (☞ 8)*

*3 *Selectable only when the TV is connected via HDMI MONITOR OUT terminal. (☞ 7)*

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Disc/file playback

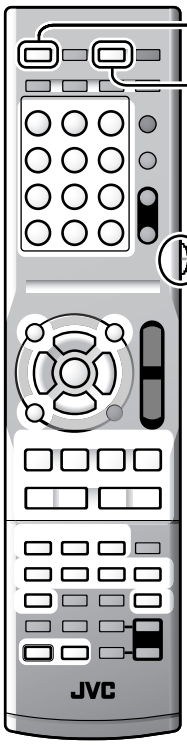
The following icons show the available disc/file types for the target function:

DVD VIDEO | DVD AUDIO | DVD VR | VCD | SVCD | CD | MP3 WMA WAV | JPEG | ASF | MPEG 1 | MPEG 2 | DivX

Initial settings

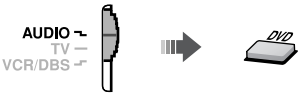
Make the following settings before playing back discs/files.

- Scanning mode (☞ 14)
- MONITOR TYPE (☞ 23)
- ON SCREEN LANGUAGE (☞ 23)

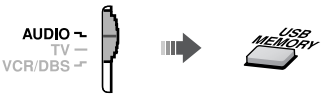


Set the remote control mode before operation.

For disc playback

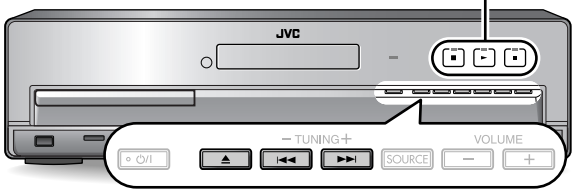


For playback of a file on a USB mass storage class device



Operating the touch sensor panel

You can operate the playback control buttons on the center unit simply by touching them.
When you touch any one of these buttons, it lights briefly in blue.



- If a still picture is displayed for about 5 minutes, the System automatically dims the screen (screen saver function). You can deactivate the screen saver function. (☞ 23)
- **When several types of files (music, picture or movie) are recorded on a disc or device, select the file type you want to play.** (☞ 23)
- For messages and icons appearing on the display, see "Messages and icons shown on the TV during disc/file playback" (☞ 31).

Basic playback

Playing back a disc

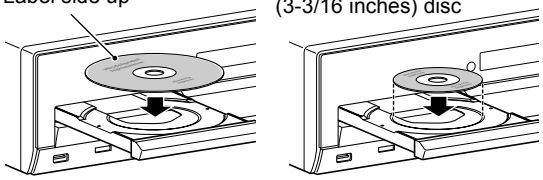
1 Select "DVD" as the source. (☞ 11)

2 (On the center unit)

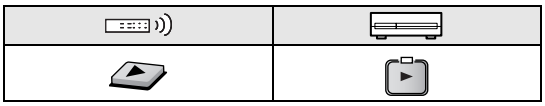
3 Place a disc on the tray.

Label side up

When placing an 8 cm (3-3/16 inches) disc



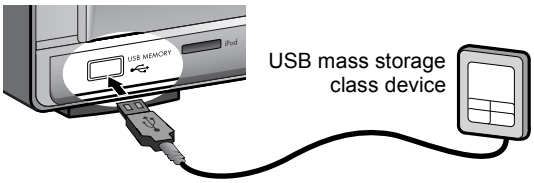
4 Start playback.



- JPEG: Slide-show playback starts.
- MP3/WMA/WAV: The file control display appears on the TV. (☞ 22)

Playing back a file on a USB mass storage class device

1 Connect a USB mass storage class device while the System is turned off.



2 Turn on the System, then select "USB" as the source. (☞ 11)

Playback starts automatically.
Press ► (play button) to start playback if the file is not played back automatically.

- JPEG: Slide-show playback starts.
- MP3/WMA/WAV: The file control display appears on the TV. (☞ 22)

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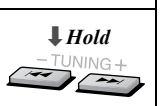
- DO NOT connect or disconnect the device when the System is turned on.
- You cannot connect a computer to the USB MEMORY terminal of the System.
- DO NOT connect the device through a USB hub.
- iPod does not play through the USB MEMORY terminal. When iPod is connected to the USB MEMORY terminal, “RESTRICT” appears on the display.
- This System may not play back some USB mass storage class devices and does not support DRM (Digital Rights Management).
- Use a USB cable of less than 1 m (3.3 ft) in length.

Play/stop/pause/search

To do		
Start playback		
Stop playback		
Pause playback		
Fast-forward/fast-reverse search*1	*2	

*1 *To return to normal playback, press ► (play button).*

*2 *Pressing and holding ⏮/⏭ also fast-forwards/fast-reverses tracks or files.*

Resume function

The System memorizes the position where the playback has been interrupted by one of the following operations:

- Pressing ■ once
- Turning off the power (☞ 11)
- Changing the source (☞ 11)

To resume playback, press ► (play button) or the corresponding source button.

To clear the memorized position, press ■ twice.

- Opening the disc tray or disconnecting the USB mass storage class device also clears the memorized position.

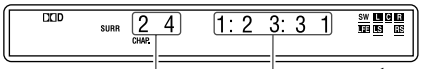
- This function does not work in program play and random play. (☞ 18)
- You can deactivate the resume function. (☞ 24)

Changing the playback information

Each time you press the button, the playback information alternates between “type A” and “type B” on the display as follows:

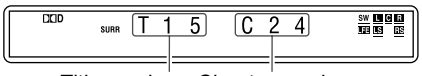
Ex.: When a DVD Video disc is played back.

Information type A



Chapter number Time information*1

Information type B



Title number Chapter number

Disc/ file type	Information type A	Information type B
DVD VIDEO	Chapter number with time information*1	Title (T) number and chapter (C) number
DVD VR		Program (PG) number/Playlist (PL) number and chapter (C) number
VCD SVCD CD	Track number with time information*1 *2	—
DVD AUDIO MP3 WMA WAV ASF MPEG 1 MPEG 2 DivX		Group (G) number and track (T) number
JPEG	File number	Group (G) number and file (F) number

*1 *For DVD Video, DVD Audio, DVD VR, VCD, SVCD, or CD, you can change the time information mode (☞ 21). For MP3, WMA, WAV, ASF, MPEG1, MPEG2, or DivX, elapsed playing time is shown.*

*2 *While playing a VCD or SVCD with PBC (☞ 17), only track number is displayed.*

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Using the disc menu

For DVD Video/DVD Audio

1 **For a DVD Video disc** **For a DVD Audio disc**

2 **Select the desired item, then confirm the selection.**

☼For some discs, you can also select items by using the number buttons.

For VCD/SVCD with PBC

The Play Back Control function (PBC) allows you to operate the VCD/SVCD using menus.

Select the number of the desired item while the menu is displayed on the TV.*

- **To move to the next or previous page of the current menu**

- **To return to the previous menu**

To perform playback without PBC

- While playback is stopped, select the desired track by using the number buttons.*
- Select the desired track by pressing ►►I repeatedly, then press ► (play button).

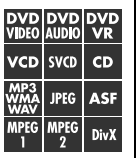
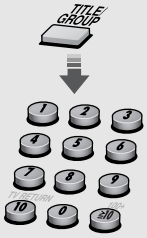
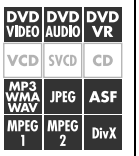
To activate the PBC function, press TOP MENU(/PG/DIRECT) or MENU(/PL).

While playing back a VCD or SVCD with PBC ("PBC" appears on the display), some functions such as time search, do not work.

* *For details on using the number buttons, see "How to use the number buttons" (☞ 10).*

Locating a desired scene or song

Selecting the beginning of a desired scene or song

To do		Disc/file
Skip chapter/track/file		
Select the chapter/ track/file number*3 *4		
Select the title/ program or playlist/ group number*3 • Enter the number while "– –" is flashing on the display		

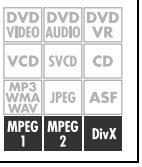
*1 *For DVD Video, DVD VR, VCD, and SVCD discs, this function is not available while playback is stopped.*

*2 *For DVD Video and DVD VR discs, you can select a title/ program while playback is stopped.*

*3 *For details on using the number buttons, see "How to use the number buttons" (☞ 10).*

*4 *When selecting the chapter/track/file number from the on-screen bar, see "Using the on-screen bar" (☞ 21).*

Selecting the desired position of a scene or song

To do		Disc/file
Move the playback position back by 10 seconds (one-touch replay)*1 *2		
Skip at approximately 5-minute intervals*1		

*1 *This function works only within the same title/program/file.*

*2 *This function is not available during repeat play.*

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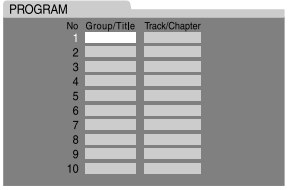
See page 15 for button locations.

Changing the playback mode

Program play and random play cannot be used for a USB mass storage class device.

Programing the playing order—program play

1



Program window

2 Select the desired chapters/ tracks.

- **For DVD Video, DVD Audio, MP3 and WMA:** Enter a title/group number, then a chapter/track number.*
- **For VCD, SVCD and CD:** Enter a track number.*

To clear the programs

One by one

All programs at once

3

To check the program contents

To return to normal playback

Press the button repeatedly until both the program window and RANDOM disappear from the TV.

- To program the tracks in the bonus group on a DVD Audio disc, perform the "Playing back a bonus group" procedure (☞ 20) before operation.
- You can program up to 99 steps.

* *For details on using the number buttons, see "How to use the number buttons" (☞ 10).*

Playing at random—random play

1

RANDOM

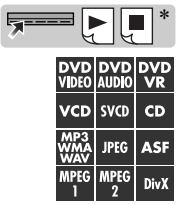
2

To return to normal playback

Press the button repeatedly until both the program window and RANDOM disappear from the TV.

- To play the tracks in the bonus group on a DVD Audio disc during random play, perform the "Playing back a bonus group" procedure (☞ 20) before operation.

Playing repeatedly—repeat play



The repeat modes you can select depend on the playback discs/files.

On the display	On the TV	Meaning
	GROUP REPEAT GROUP	Repeat current group
	TITLE	Repeat current title
	PG	Repeat current program
	PL	Repeat current playlist
ALL	ALL REPEAT ALL	Repeat all titles/ programs/tracks/files
1	TRACK, STEP REPEAT TRACK, REPEAT STEP	Repeat current track
	CHAP, STEP	Repeat current chapter
No indication	OFF	Repeat mode is deactivated

- You can repeat the desired part from the on-screen bar (A-B repeat). (☞ 21)
- This function is not available when playing back a VCD/SVCD disc with PBC (☞ 17).

* *For DVD Video and DVD VR discs, this function is not available while playback is stopped.*

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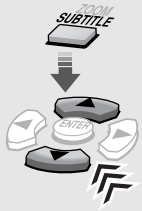
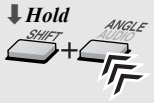
Advanced operations

Changing the language/sound/scene angle

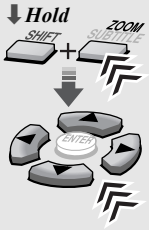
To do		Disc/file
Select the subtitle language*1 *2 1/3 ENGLISH • To show/hide the subtitle, press SUBTITLE.		DVD VIDEO, DVD AUDIO, DVD VR, VCD, SVCD, MP3 WMA WAV, JPEG, ASF, MPEG 1, MPEG 2, DivX
Select the audio language/audio channel*2 1/3 ENGLISH		DVD VIDEO, DVD AUDIO, DVD VR, VCD, SVCD, MP3 WMA WAV, JPEG, ASF, MPEG 1, MPEG 2, DivX
Select the view angle 1/3 1		DVD VIDEO, DVD AUDIO, DVD VR, VCD, SVCD, MP3 WMA WAV, JPEG, ASF, MPEG 1, MPEG 2, DivX

For DVD Audio, the functions take effect for the moving picture part only.

*1 *For DVD VR and SVCD discs, the subtitle indication appears and can be changed by performing the above procedure even if no subtitles are recorded.*

*2 *Some subtitle or audio languages are abbreviated in the pop-up window. See "Language code list" (☞ 30).*

Special picture playback

To do		Disc/file
Play back frame by frame		DVD VIDEO, DVD AUDIO, DVD VR, VCD, SVCD, CD, MP3 WMA WAV, JPEG, ASF, MPEG 1, MPEG 2, DivX
Play back in slow-motion*1		DVD VIDEO, DVD AUDIO, DVD VR, VCD, SVCD, CD, MP3 WMA WAV, JPEG, ASF, MPEG 1, MPEG 2, DivX
Enlarge the picture*2 *3 • Change the scene magnification, then move the zoomed-in area.		DVD VIDEO, DVD AUDIO, DVD VR, VCD, SVCD, CD, MP3 WMA WAV, JPEG, ASF, MPEG 1, MPEG 2, DivX

To return to normal playback

- While playing back frame by frame or in slow-motion, press ► (play button).
- While zooming in the picture, select "OFF" by pressing ZOOM repeatedly while holding SHIFT.

For DVD Audio, the functions take effect for the moving picture part only.

*1 *For DVD Video and DVD Audio, reverse slow-motion is also available by pressing ⊖ SLOW repeatedly.*

*2 *To zoom in JPEG files, pause the playback first.*

*3 *On some files, using cursor (►/◄/▼/▲) cannot move the zoomed-in area during playback.*

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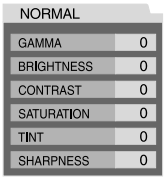
See page 15 for button locations.

Adjusting the picture quality (VFP)

You can adjust the picture mode.

1



2 Select the desired preset, then finish the setting.

NORMAL	Normally select this.
CINEMA	Suitable for movies
USER1/ USER2	You can adjust parameters that affect picture appearance. (See below.)

To adjust the picture tone

1 Select "USER1" or "USER2" (see above).

2 Select a parameter, then confirm the selection.

GAMMA	Controls the brightness of the neutral color
BRIGHTNESS	Controls the brightness of the entire picture
CONTRAST	Controls the contrast
SATURATION	Controls the color depth
TINT	Controls the tint
SHARPNESS	Controls the sharpness

3 Adjust the parameter, then confirm the selection.

4 Repeat steps 2 and 3 to adjust others.

5

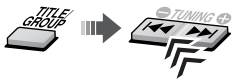
When connecting the TV to the HDMI MONITOR OUT terminal (☞ 7), the VFP setting has no effect.

Special playback for DVD Audio

Playing back a bonus group

Some DVD Audio discs have a "bonus group."
To play back a bonus group, you have to enter the specific "key number" (a password).

1 Select a bonus group.



The key number entry screen appears.

On the TV

On the display

2 Enter the key number, then confirm the entry.

Enter the number

To clear the key number entry

Selecting browsable still pictures

While playing back a track linked to browsable still pictures (B.S.P), you can select the still pictures (turn the page).

- If a track is linked to browsable still pictures, they are usually shown automatically during playback.

Select the desired still picture.

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Operation from the TV screen

Using the on-screen bar

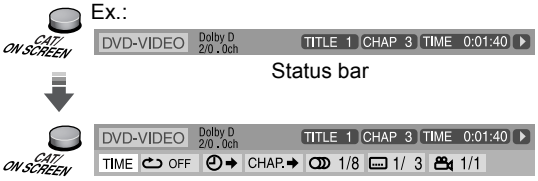
DVD VIDEO | DVD AUDIO | DVD VR | VCD | SVCD | CD | MP3 WMA WAV | JPEG | ASF | MPEG 1 | MPEG 2 | DivX

You can use various functions from the on-screen bar.

Basic operation procedure

1

Ex.:

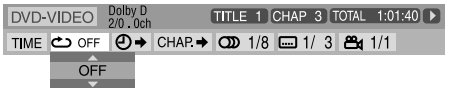


2 Select the desired item (see the right column), then confirm the selection.

After confirming the selection...

- **When the pull-down menu appears,** select the desired item by pressing cursor ▲/▼ repeatedly, then confirm the selection by pressing ENTER.

  Ex.:



- **When a number-entry box appears,** enter the number by using the number buttons (0-9), then confirm the entry by pressing ENTER.

  Ex.:

  To correct a misentry:

  – TIME setting: press cursor ◄ repeatedly to clear the misentry, then re-enter the number.

  – CHAP. setting: re-enter the number.

- **When changing the time information mode (TIME),** select the desired item by pressing ENTER repeatedly.

To clear the on-screen bar

The contents of the on-screen bar differ according to the type of discs/files.

* *During playback of ASF, MPEG-1, MPEG-2, or DivX files, the function bar does not appear.*

On-screen bar functions

TIME	Selects the time information mode shown on the display and the status bar. TIME *1: Elapsed time of chapter/track REM *1: Remaining time of chapter/track TOTAL: Elapsed time of title (DVD Video)/ group (DVD Audio)/program (DVD VR)/disc (VCD/CD/SVCD) T.REM: Remaining time of title (DVD Video)/group (DVD Audio)/ program (DVD VR)/disc (VCD/ CD/SVCD)
↻	Selects repeat mode. ↻GROUP / ↻TITLE / ↻PG / ↻PL / ↻ALL / ↻TRACK / ↻CHAP / ↻ STEP / ↻ OFF : See also “Playing repeatedly—repeat play” (☞ 18). ↻ A – B : Repeats the desired part (A-B repeat).*2 *3 After selecting this, select the beginning point (A), then the end point (B) by pressing ENTER twice.
🕘→	Specifies the playback point by the time.
CHAP.→	Specifies a chapter to play back from.
TRACK→	Specifies a track to play back from.
💬	Selects the audio language or audio channel during playback.
🗨	Selects the subtitle language during playback.
📹	Selects the desired scene angle in a multi-angle part during playback.
PAGE	Selects the desired browsable still picture.

*1 *Not available for DVD VR discs*

*2 *During playback of DVD Video or DVD VR discs, A-B repeat play is available only within the same title/program.*

*3 *A-B repeat play is not available during program and random playback.*

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See page 15 for button locations.

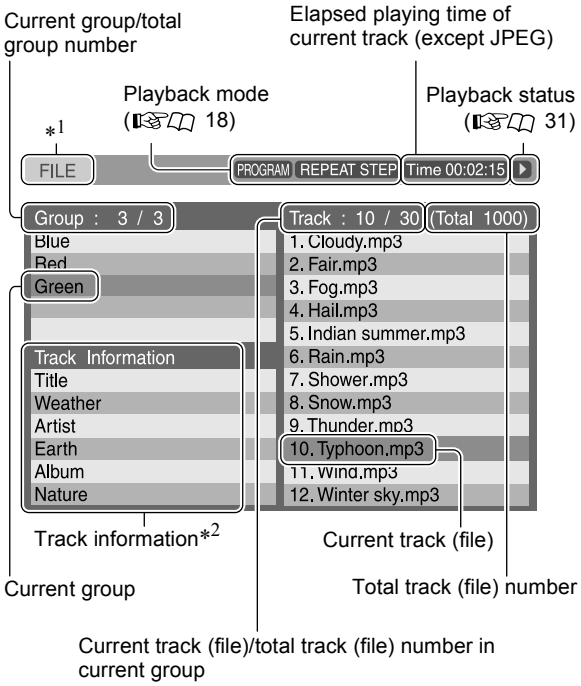
Using the file control display

DVD VIDEO | DVD AUDIO | DVD VR | VCD | SVCD | CD | MP3 WMA WAV | JPEG | ASF | MPEG 1 | MPEG 2 | DivX

- The file control display appears in the following cases.
  – Audio files: Always appears.
  – Movie and picture files: When TOP MENU(/PG/DIRECT) or MENU(/PL) is pressed or playback is stopped.

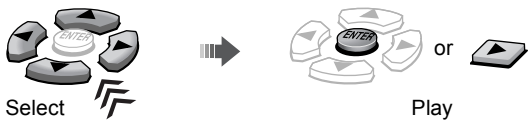
File control display

Ex.:



To play back the desired track/file

Select a desired group/track/file, then start playback.



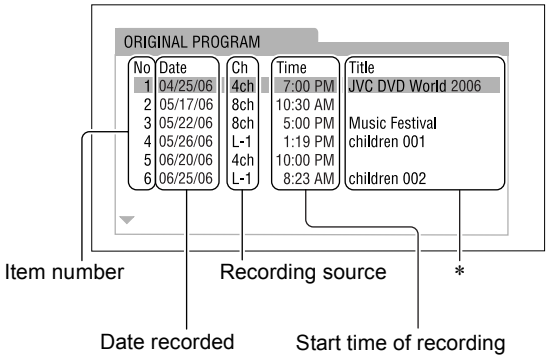
- For JPEG:
  – **To start a slide-show from the selected file,** press ► (play button).
  – **To play the selected file only,** press ENTER.

*1 *When the source is "DVD," "FILE" appears, and when the source is "USB," "USB" appears.*

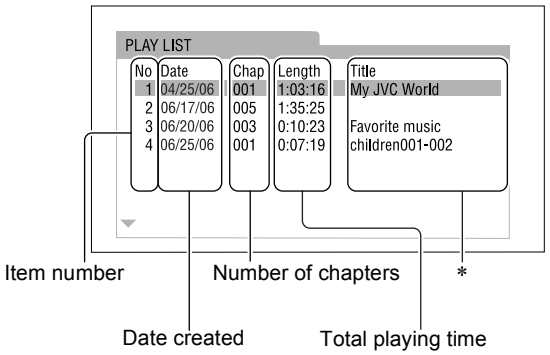
*2 *For MP3/WMA/WAV only.*

Using the program list/ playlist (for DVD VR)

Program list



Playlist



* *The title may not be displayed depending on the recording equipment.*

To play back the desired item

1 **To display the program list**

To display the playlist

The System starts playing the first item.

2 **Select the desired item.**

3

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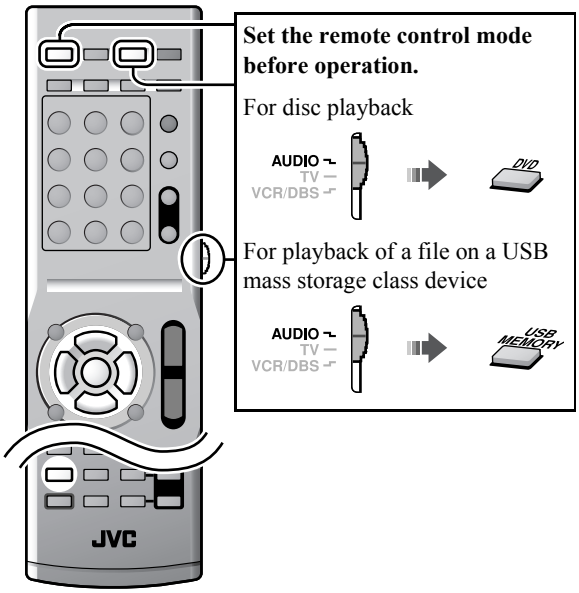
Personal settings



You can change the settings of the System according to your preferences and playing environment.

1 SET UP

2 Select the menu.

3 Select the item, then confirm.

Repeat this procedure until all the options have been confirmed.

To close the setup screen

SET UP

Language menu (LANGUAGE)

MENU LANGUAGE	Select the language for the DVD/DivX menu.	See “Language code list” (☞ 30) for the code of each language, such as “AA,” etc.
AUDIO LANGUAGE	Select the language for the audio language.	
SUBTITLE	Select the language for the subtitle language.	
ON SCREEN LANGUAGE	Select the language for the screen.	

Picture menu (PICTURE)

MONITOR TYPE	Select 16:9 wide-screen playback to fit your monitor. For wide TV: **16:9 NORMAL:** For fixed 16:9 wide TV **16:9 AUTO:** For ordinary wide TV For conventional (4:3) TV: **4:3 LB** **4:3 PS**
PICTURE SOURCE	Select the source type of the disc/file contents when selecting the progressive scanning mode (☞ 14). **AUTO:** Normally select this. **FILM:** For a film source movie **VIDEO:** For a video source movie
SCREEN SAVER	Activate (**ON**) or deactivate (**OFF**) the screen saver function.
FILE TYPE	Select the file type to play when several types of files are recorded on a disc/device. **AUDIO:** For audio files **STILL PICTURE:** For picture files **VIDEO:** For movie files
HDMI DVI COLOR	Select the picture appearance for a TV with an HDMI connection. **STANDARD:** No effect applied. **ENHANCE:** Select when you need automatic picture adjustment.
HDMI OUT	Select the type of video signal output from the HDMI MONITOR OUT terminal. **AUTO:** Normally select this. **RGB:** Select this when no picture appears on the TV with “AUTO.”

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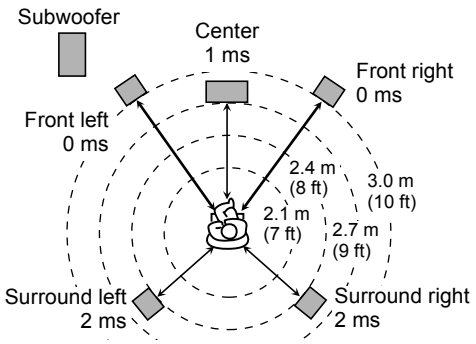
Audio menu (AUDIO)

DOWN MIX	This menu is available only when the speaker position mode is set to "S.SPK F" (12). Select the audio signal output to the TV connected to the HDMI MONITOR OUT terminal. **DOLBY SURROUND:** For the TV equipped with Dolby Pro Logic decoder **STEREO:** For ordinary TV
D. RANGE COMPRESSION	You can enjoy powerful audio even at low volume level while playing Dolby Digital software. **AUTO:** Select this to apply the compression only to the multi-channel software (except 1-channel and 2-channel sources). **ON:** Select this to always apply the compression.
HDMI AUDIO OUT	This setting is effective only for the source "DVD" or "USB." Select whether the System emits the audio signal from the HDMI MONITOR OUT terminal (**ON**) or not (**OFF**). • For selecting whether the external component emits the audio signal through its HDMI terminal, make the setting on the external component.

Speaker setting menu (SPK.SETTING)

SPK.SETTING menu is available only when the speaker position mode is set to "S.SPK R" (12).

LEVEL	Adjust the output level of each speaker while monitoring the test tone. **FRONT LEFT/RIGHT SPEAKER, CENTER SPEAKER, SURROUND RIGHT/LEFT SPEAKER:** Select the speaker, then adjust the output level. **TEST TONE:** Turns on/off the test tone.
DELAY	Adjust the delay time of the speakers. **FRONT LEFT/RIGHT SPEAKER, CENTER SPEAKER, SURROUND RIGHT/LEFT SPEAKER:** Select the speaker, then adjust the distance from the listening position to the speakers. • **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. Ex.: 
SUBWOOFER	Make the subwoofer setting. **LEVEL:** Adjust the output level of the subwoofer. **CROSS OVER:** Select an appropriate crossover frequency according to the size of the cone speaker unit built into the small speaker connected. **120Hz:** Select this when the cone speaker unit size is 8 cm (3-3/16 inches) or more. **150Hz:** Select this when the cone speaker unit size is between 6 cm (2-3/8 inches) and 8 cm (3-3/16 inches). **200Hz:** Select this when the cone speaker unit size is 5 cm (2 inches) or less.

Other setting menu (OTHERS)

RESUME	Activate (**ON**) or deactivate (**OFF**) the resume function.
ON SCREEN GUIDE	Activate (**ON**) or deactivate (**OFF**) the on-screen guide icons.
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 purposes.

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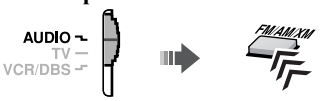
XM Satellite Radio operations

Set the remote control mode before operation.



- Select "XM" as the source. (☞ 11)

About XM Satellite Radio

XM offers over 170 digital radio channels: the most commercial-free music channels, premier news, sports, talk, and traffic and weather in 21 metro markets. XM's on-air hosts broadcast live from studios in Washington, D.C., New York City and Nashville. For more information or to subscribe in the US, visit xmradio.com or call Listener Care at 1-800-XMRADIO (1-800-967-2346).

For messages appearing on the display, see "Messages shown on the display while listening to the XM Satellite Radio" (☞ 31).

Preparations

Make sure that you have the following items to enable you to listen to the XM Satellite Radio stations:

- The XM Mini-Tuner system—XM Mini-Tuner and XM Mini-Tuner Home Dock antenna
- A subscription to XM Satellite Radio

How to subscribe

XM monthly service subscription sold separately. XM Mini-Tuner and Home Dock required (each sold separately) to receive XM service. Installation costs and other fees and taxes, including a one-time activation fee may apply.
Subscription fee is consumer only. All fees and programming subject to change. Channels with frequent explicit language are indicated with an XL. Channel blocking is available for XM radio receivers by calling 1-800-XMRADIO (1-800-967-2346). For a full listing of the XM commercial-free channels and advertising-supported channels, visit lineup.xmradio.com. Subscriptions subject to Customer Agreement available at xmradio.com. XM service only available in the 48 contiguous United States. XM Satellite Radio and XM Ready are trademarks of XM Satellite Radio Inc. (C)2006 XM Satellite Radio Inc. All rights reserved.

To start subscribing, you need to have the XM Satellite Radio ID code. To find the ID code, see "How to find the XM Satellite Radio ID code" below.

- The following channels are available without subscription:
  - **Channel 0**: For checking the XM Satellite Radio ID code
  - **Channel 1**: "XM Preview" channel

Select "XM" as the source before starting subscription, and keep the source "XM" until subscribing is completed.

How to find the XM Satellite Radio ID code

Tune in to "Channel 0" to check your XM Satellite Radio ID code.

The 8-digit (alphanumeric) ID code is displayed.

- **To cancel the ID code display,** select any channel other than "Channel 0."

Finding the best position for the XM Mini-Tuner Home Dock antenna

You can place the XM Mini-Tuner Home Dock antenna optimally by checking the signal strength shown on the display.

1 ⬇*Hold* SET UP

Antenna Aiming display

2 Aim the XM Mini-Tuner Home Dock antenna to the direction at where you get best signal strength value—either "S" (Satellite) or "T" (Terrestrial).

- The signal strength value is from 0 (worst) to 4 (best).
- The most reliable reception is achieved when signal strength values are at least 3 on both Satellite and Terrestrial. Terrestrial coverage is available only in large metropolitan cities.

3 SET UP

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Manual tuning

To search a channel

- While searching, the invalid and unsubscribed channels are skipped.
- TUNING ⊕/TUNING ⊖ are not used to select a XM Satellite Radio channel.

To select a channel within the category

1 Enter the category search mode.

2 Select the desired category name, then select the channel.

Select category → Select channel

3 Exit from the category search mode.

To select a channel number directly

1

2 Select the desired channel number.*

* *For details on using the number buttons, see "How to use the number buttons" (☞ 10).*

Preset tuning

You can preset 30 XM Satellite Radio channels.

Storing the preset channels

1 Tune in to the channel you want to preset.

2

"_ _" flashes on the display. Perform the next step while "_ _" is flashing.

3 Select a preset number, then store the channel to that number.

Enter a preset number* → Store

- "STORED" appears on the display.

Tuning in to a preset channel

Select a preset number.*

You can also select a preset number by pressing PRESET(/CAT) UP or PRESET(/CAT) DOWN when the System is not in the category search mode (the CAT indicator is turned off). To exit from the category search mode, see the left column.

* *For details on using the number buttons, see "How to use the number buttons" (☞ 10).*

Changing the channel information

You can change the type of channel information which appears on the display.

CH (channel number) → **CHAN** (channel name) → **NAME** (artist name/feature) → **TITLE** (song/program title) → **CAT** (category name) → (back to the beginning)

- If you turn off the power or select another source, the display is changed back to the channel name information.
- When tuning in to another channel, the channel name appears on the display temporarily.
- Some characters cannot be displayed correctly.

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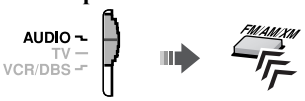
FM/AM tuner operations

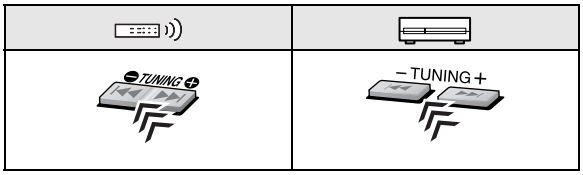
Set the remote control mode before operation.



- Select the desired source (“FM” or “AM”) you want to listen to. (☞ 11)

Manual tuning

Tuning in to a station



☼ You can also tune in to a station automatically. Press and hold TUNING ⊕/TUNING ⊖ until the station search starts. The system tunes in the first station of sufficient signal strength found automatically.

☼ You can also tune in to the station by pressing cursor ▲/▼.

Preset tuning

You can preset 30 FM stations and 15 AM stations.

Storing the preset stations

1 Tune in to the station you want to preset.

2 MEMORY “_ _” flashes on the display. Perform the next step while “_ _” is flashing.

3 Select a preset number, then store the station to that number.

Enter a preset number*

- “STORED” appears on the display.

Tuning in to a preset station

Select a preset number.*

☼ You can also select a preset number by pressing PRESET(/CAT) UP or PRESET(/CAT) DOWN.

* *For details on using the number buttons, see “How to use the number buttons” (☞ 10).*

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.

AUTO	Normally select this.
MONO	Select to improve reception. (You will lose the stereo effect.)

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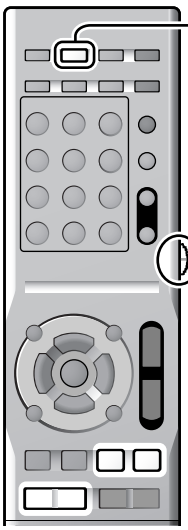
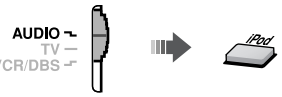
iPod playback



Set the remote control mode before operation.



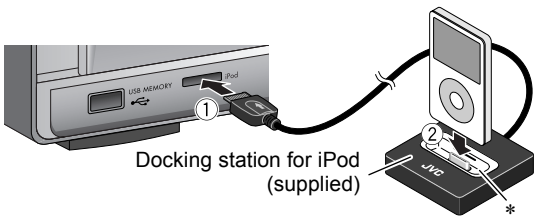
Before selecting the video source to play

Make the appropriate setting for video output on the iPod.

Starting playback

- Be sure to reduce the volume on the System to the minimum level before connecting an iPod. Adjust the volume after playback has started.

1 Connect an iPod while the System is turned off.



* *Attach the dock adapter (supplied for the iPod or separately purchased) before placing the iPod. (☞ 32)*

- Face the arrow-mark side up when connecting the plug.

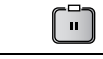
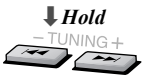
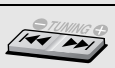
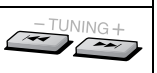
2 Turn on the System, then select "IPod" as the source. (☞ 11)

"CONNECT" appears on the display. If an iPod is not connected firmly, "NO CONNE" appears.

3 Start playing the iPod.

- Press ► (play button) again if iPod does not start playback.

Play/pause/search/skip

To do		
Start playback		
Pause playback		
Fast-forward/fast-reverse search		
Skip to the next/previous item*		

* *Operate on your iPod to skip to the next/previous item while playing back a video.*

- The iPod enters sleep mode when you turn off the System or select another source.
- To show still pictures in the iPod, play back in slide-show mode on the iPod.

- DO NOT connect or disconnect the iPod when the System is turned on.
- DO NOT touch the iPod terminal pins or the connector pins.
- When the iPod is not charged through the System, the iPod may not be turned on from the System.
- If the sound is distorted when audio sources with high recording levels are played, you are recommended to deactivate the equalizer on your iPod.
- To view a video/picture from the iPod on the TV, connect the System to the TV via the composite or S-video jacks. (☞ 8)
- You cannot send any data to your iPod from the System.
- The iPod battery is charged only when "IPod" is selected as the source.

If the iPod which is not listed in "Playable digital devices" (☞ 3) is connected, the iPod may not be operated from the System. In this case, deactivate the iPod battery charge function so that the iPod may be operated, but the iPod cannot be charged through the System.

To deactivate the battery charge function

"P.OFF" appears on the display.

To use the battery charge function, perform the above procedure again. "P.ON" appears on the display.

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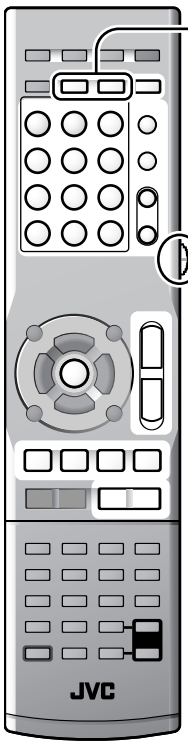
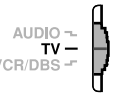
Operating external components

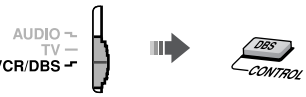


Set the remote control mode before operation.

For TV



For DBS tuner or CATV converter



For VCR

Preparation

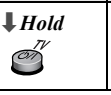
Make the audio input setting before operation. (☞ 14)

Setting the manufacturer's code

Before operating external components from the remote control, set the manufacturer's code.

1 Set the remote control mode (see above).

2 Press and hold ⏻/I for the target component until the setting is finished.

For TV	For DBS tuner or CATV converter	For VCR
		

3

4 Enter the manufacturer's code.

See "Manufacturer's code list" for the manufacturer's code. (☞ 30)

5 Release ⏻/I .

- If there is more than one code listed for the corresponding brand, try each one until you enter the correct one.
- Set the codes after replacing batteries of the remote control.

Operating external components

Set the remote control mode before operating each external component (see the left column).

Operating the TV

⏻/I TV	Turns the power 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, ≧10 (100+)	Selects the channels
TV RETURN	Alternates between the previously selected channel and the current channel

Operating the DBS tuner or CATV converter

⏻/I VCR/DBS	Turns the power on and off
CH +/–	Changes the channels
1-10, 0, ≧10 (100+)	Selects the channels

Operating the VCR

⏻/I VCR/DBS	Turns the power on and off
► (play button)	Starts playback
■	Stops playback
II	Pauses playback
►►	Fast-forwards the tape
◄◄	Rewinds the tape
REC	Press this button together with ► (play button) to start recording or together with II to enter recording-pause.
CH +/–	Changes the TV channels
0 - 9	Selects the TV channels

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References

Manufacturer's code list

TV

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		

DBS tuner or CATV converter

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

VCR

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		

* *Initial setting*

Manufacturers' codes are subject to change without notice.

Language code list

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

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Messages and icons shown on the TV and display

Messages and icons shown on the TV during disc/file playback

OPEN/CLOSE	Opening or closing the disc tray
NOW READING	Reading the disc/file information
READING INDEX...	Reading the DivX file
REGION CODE ERROR!	The Region Code of the DVD Video disc does not match the code the System supports. (☞ 3)
NO DISC	No disc or an unfinalized disc is loaded.
NO USB DEVICE	No USB mass storage class device is loaded.
CANNOT PLAY THIS DISC	An unplayable disc is loaded.
CANNOT PLAY THIS DEVICE	An unplayable USB mass storage class device is connected.
RESTRICTED DEVICE	iPod is connected to the USB MEMORY terminal.
NOT SUPPORT	The file cannot be played back.

⃠	The operation is unacceptable.
▶	Playback
❚❚	Pause
▶▶ / ◀◀	Fast-forward/fast-reverse
▶❚ / ❚◀	Forward/reverse slow-motion playback
	The scene contains multi-audio languages.
	The scene contains multi-subtitle languages.
	The scene contains multi-angle views.

☼You can change the setting so that the on-screen guide icons do not appear on the TV. (☞ 24)

Messages shown on the display while listening to the XM Satellite Radio

NO SIGNL	No signal is received.
CHECK XM TUNER	The XM Mini-Tuner is not properly installed or the XM Mini-Tuner Home Dock is not properly connected.
CHECK ANTENNA	XM antenna is not properly connected.
LOADING	Loading the channel information and audio data.
OFF AIR	The selected channel is not currently broadcasting any signal.
UPDATING	Updating the latest encryption.
- - - - -	No text information for the selected channel is available.
Preset number and "- - - - -"	
CH- - -	The selected channel does not exist or is not subscribed yet.
Preset number and "CH- - -"	

Troubleshooting

Power does not come on.

➡ The power plug is not inserted securely. Plug it in securely.

Unable to operate the System from the remote control.

➡ The path between the remote control and the remote sensor on the center unit is blocked.

➡ The batteries are exhausted.

No sound is heard.

➡ The speaker connections and/or audio cord connections are incorrect or loose. (☞ 5, 8, 9)

➡ Headphones are connected.

The sound is distorted

➡ The speaker layout (☞ 6) does not match the speaker position mode (☞ 12).

No picture appears on the TV.

➡ The video cord connections are incorrect or loose. (☞ 7 – 9)

The picture does not fit the TV.

➡ The monitor type is not set correctly. (☞ 23)

No picture is displayed on the TV, the picture is blurred, or the picture is divided into two parts.

➡ The scanning mode is set to the progressive mode even though the TV connected to the System does not support progressive video input. (☞ 14)

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No picture is displayed on the TV or no sound comes out through the HDMI connection.

➡ The connected TV is not HDCP-compatible. ("HDCP ERR" appears on the display.)

➡ Disconnect the HDMI cable and connect it again, or use a shorter cable.

Video and audio are distorted.

➡ The disc is scratched or dirty.

➡ Audio/video files have not been properly copied on to the USB mass storage class device.

➡ A VCR is connected between the center unit and the TV. Connect the center unit and TV directly. (☞ 7)

VCD/SVCD operation cannot be performed.

➡ Some functions do not work for VCDs/SVCDs when the PBC function is used.

No sound is heard from the external components, or the video and audio do not match.

➡ The selected audio input is not appropriate. Select the audio input to match the component connected. (☞ 14)

The iPod does not play even though "CONNECT" appears on the display.

➡ The battery of the iPod is exhausted. Leave the iPod connected for at least 10 minutes.

The iPod cannot be operated from the System.

➡ The iPod battery charge function is deactivated. (☞ 28)

➡ The iPod is not compatible with the System. Check the compatibility. (☞ 3)

iPod is not charged.

➡ The source is not "IPod."

➡ The iPod battery charge function is deactivated. (☞ 28)

The broadcast is hard to hear because of noise.

➡ Antenna connections are incorrect or loose. (☞ 7)

➡ The AM loop antenna is too close to the System.

➡ The FM Antenna is not properly extended and positioned. (☞ 7)

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- Plays all versions of DivX® video (including DivX® 6) with enhanced playback of DivX® media files and the DivX® Media Format
- Microsoft and Windows Media are either registered trademarks or trademarks of Microsoft Corporation in the United States and/or other countries.
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- iPod is a trademark of Apple Inc., registered in the U.S. and other countries.
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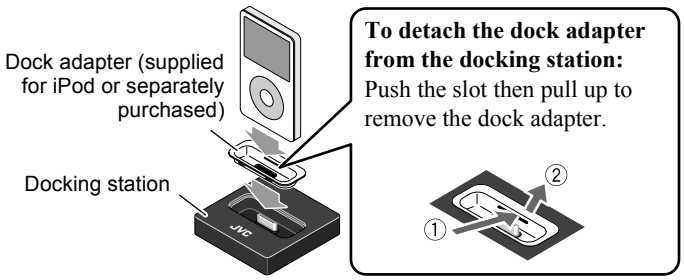
Attaching the dock adapter to the docking station



- Disconnect the docking station from the center unit when attaching/detaching the dock adapter.
- Take care not to damage the terminal on the docking station when attaching/ detaching the dock adapter.

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Specifications

Center unit (XV-THD60WM)

Output power

Front/Surround:
200 W per channel, RMS at 3 Ω at 1 kHz, with 10% total harmonic distortion.
Center:
200 W, 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.

Audio section

Digital Input*
DIGITAL IN
OPTICAL: –21 dBm to –15 dBm (660 nm ±30 nm)
COAXIAL: 0.5 V(p-p)/75 Ω

* *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 (VIDEO OUT)
Composite video: 1.0 V(p-p)/75 Ω
S-video (Y): 1.0 V(p-p)/75 Ω
(C): 0.286 V(p-p)/75 Ω
Component (Y): 1.0 V(p-p)/75 Ω
(P_B/P_R): 0.7 V(p-p)/75 Ω
Video Input Sensitivity/Impedance (VIDEO IN)
Composite: 1.0 V(p-p)/75 Ω
S-video (Y): 1.0 V(p-p)/75 Ω
(C): 0.286 V(p-p)/75 Ω

HDMI

HDMI Input (VIDEO 1 IN)*: PASS THROUGH (up to 225 MHz)
HDMI Output (MONITOR OUT): 480p/720p/1080i

USB storage

USB Specification: Compatible with USB 2.0 Full-Speed
Compatible Device: Mass Storage Class
Compatible File System: FAT16, FAT32
Bus Power Supply: Max. 500 mA

Tuner section

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

General

Power Requirements: AC 120 V ~, 60 Hz
Power Consumption: 160 W (during operation)
1.3 W (in standby mode)
Dimensions (W × H × D):
435 mm × 115 mm × 270 mm
(17-3/16 inches × 4-3/8 inches × 10-11/16 inches)
Mass: 6.8 kg (15.0 lbs)

Subwoofer (SP-THD60WMW)

Type: Bass-Reflex Type
Speaker: 20 cm (7-7/8 inches) cone × 1
Power Handling Capacity: 200 W
Impedance: 3 Ω
Frequency Range: 28 Hz to 200 Hz
Sound Pressure Level: 74 dB/W•m
Dimensions (W × H × D):
265 mm × 351 mm × 357 mm
(10-7/16 inches × 13-7/8 inches × 14-1/16 inches)
Mass: 9.0 kg (19.9 lbs)

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Satellite speakers

Front speakers (SP-THD6F)

Type:
2-Way Bass-Reflex Type (Magnetically Shielded Type)
Speaker: 8 cm (3-3/16 inches) cone × 1
3 cm (1-3/16 inches) dome × 1
Power Handling Capacity: 200 W
Impedance: 3 Ω
Frequency Range: 90 Hz to 20 000 Hz
Sound Pressure Level: 78 dB/W•m
Dimensions (W × H × D):
200 mm x 574 mm x 200 mm
(7-7/8 inches × 22-5/8 inches × 7-7/8 inches)
Mass: 2.4 kg (5.3 lbs) each

Center speaker (SP-THD6C)

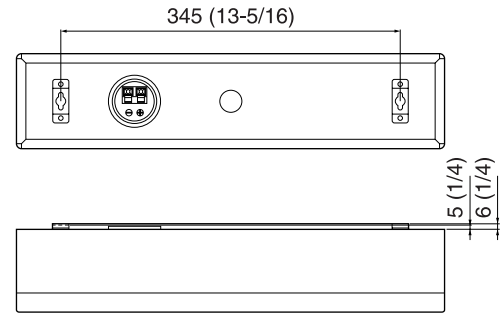
Type:
1-Way 2-Speaker Bass-Reflex Type (Magnetically Shielded Type)
Speaker: 8 cm (3-3/16 inches) cone × 2
Power Handling Capacity: 200 W
Impedance: 3 Ω
Frequency Range: 90 Hz to 20 000 Hz
Sound Pressure Level: 83 dB/W•m
Dimensions (W × H × D):
435 mm × 99 mm × 93.5 mm
(17-3/16 inches × 3-15/16 inches × 3-11/16 inches)
Mass: 2.0 kg (4.5 lbs)

Surround speakers (SP-THD6S)

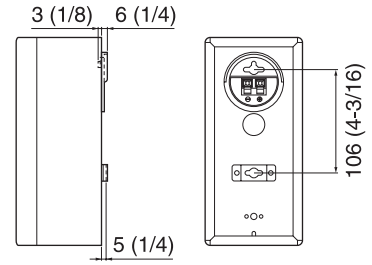
Type:
1-Way Bass-Reflex Type (Magnetically Shielded Type)
Speaker: 8 cm (3-3/16 inches) cone × 1
Power Handling Capacity: 200 W
Impedance: 3 Ω
Frequency Range: 90 Hz to 20 000 Hz
Sound Pressure Level: 75 dB/W•m
Dimensions (W × H × D):
98.5 mm × 214.5 mm × 93.5 mm
(3-15/16 inches × 8-1/2 inches × 3-11/16 inches)
Mass: 0.85 kg (1.9 lbs) each

Dimensions of the wall-mount attachment on the center and surround speakers:

SP-THD6C



SP-THD6S



Unit: mm (inch)

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CONSUMER VIDEO 1-90

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PARTS	LABOR
1 YR	**90 DAYS**

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For customer use:

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

Model No. : _____ Serial No. : _____

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Caution

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

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TH-D60WM

DVD DIGITAL THEATER SYSTEM

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