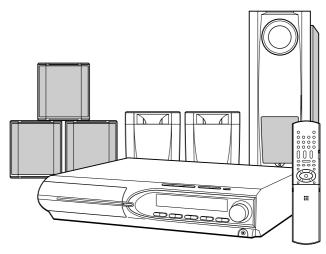




# **DVD DIGITAL CINEMA SYSTEM**

# **TH-M303**

Consists of XV-THM303, SP-PWM303, SP-THM303F, SP-THM303C and SP-THM303S







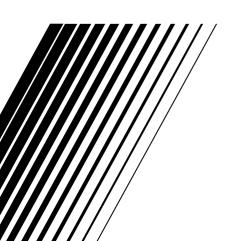






**Digital Direct Progressive Scan** 

**INSTRUCTIONS** 



# Warnings, Cautions and Others

## IMPORTANT for the U.K.

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

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

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

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

#### IMPORTANT.

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

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

Blue: Neutral Brown: Live

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

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

The wire which is coloured brown must be connected to the terminal which is marked with the letter L or coloured red. IF IN DOUBT - CONSULT A COMPETENT ELECTRICIAN.

#### **CAUTION**

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

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

# CAUTION — O/I button! (XV-THM303)

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

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

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

# **CAUTION (SP-PWM303)**

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

#### **CAUTION**

- Do not block the ventilation openings or holes.

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

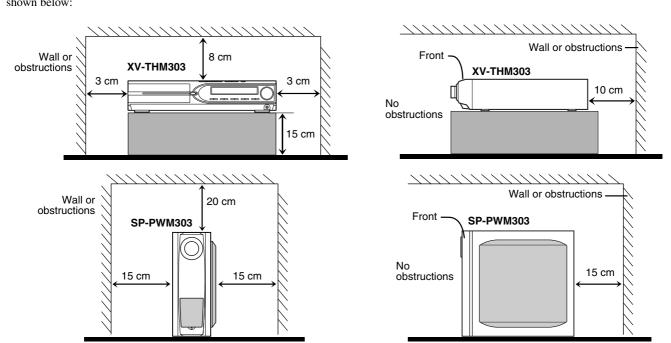
# **IMPORTANT FOR LASER PRODUCTS**

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

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

#### **Caution: Proper Ventilation**

To avoid risk of electric shock and fire and to protect from damage, place the apparatus on a level surface. The minimal clearances are shown below:



# SAFETY INSTRUCTIONS "SOME DOS AND DON'TS ON THE SAFE USE OF EQUIPMENT"

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

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

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

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

Do be careful with glass panels or doors on equipment.

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

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

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

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

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

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

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

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

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

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

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

#### ABOVE ALL

- NEVER let anyone, especially children, push anything into holes, slots or any other opening in the case this could result in a fatal electrical shock.;
- NEVER guess or take chances with electrical equipment of any kind it is better to be safe than sorry!

E43486-340B

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# **Notes on handling**

# **■** Important cautions

# Installation of the system

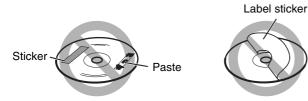
- Select a place which is level, dry and neither too hot nor too cold; between 5°C and 35°C.
- · Leave sufficient distance between the system and the TV.
- Do not use the system in a place subject to vibration.

#### Power cord

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

## To prevent malfunctions of the system

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



# Note about copyright laws

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

# Note about copyguard system

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

# ■ Safety precautions

## Avoid moisture, water and dust

Do not place the system in moist or dusty places.

## Avoid high temperatures

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

#### When you are away

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

## Do not block the vents

Blocking the vents may damage the system.

# Care of the cabinet

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

## If water gets inside the system

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

# **Supplied accessories**

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

- Remote control (1)
- Batteries (2)
- FM antenna (1)
- AM loop antenna (1)
- Power cord (1)
- System cord (1)

# Playable disc types

This system has been designed to play back the following discs: DVD VIDEO, DVD AUDIO, Video CD (VCD), Super Video CD (SVCD), Audio CD (CD), CD-R and CD-RW.

- This system accommodates the PAL system, and also can play discs recorded with NTSC system. Note that the NTSC video signal on a disc is converted to the PAL60 signal and output.
- This system can also play MP3, WMA, JPEG and MPEG4 files recorded on CD-Rs and CD-RWs. (FF pg. 18)
- This system can also play finalized DVD-R/-RWs recorded in DVD VIDEO format. However, some discs may not be played because of their disc characteristics or recording conditions.

## Discs you can play:

• •	
DVD VIDEO	CD
VIDEO TM VIDEO	COMPACT DIGITAL AUDIO
DVD AUDIO	CD-R
AUDIO" AUDIO/VIDEO"	DIGITAL AUDIO Recordable
VCD	CD-RW
COMPACT Video CD	DIGITAL AUDIO ReWritable
SVCD	
SUPER VIDEO SUPER VIDEO SUPER VIDEO	

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

#### Region code of DVD VIDEO

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

Example of playable DVD:









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

- The following discs cannot be played back: DVD-ROM, DVD-RAM, SACD, CD-ROM, CD-I (CD-I Ready), Photo CD, etc.
  - Playing back these discs will generate noise and damage the speakers.
- On some DVD VIDEOs, DVD AUDIOs, VCDs or SVCDs, their actual operation may be different from what is explained in this manual. This is due to the disc programming and disc structure, not a malfunction of this system.

## Notes on CD-R and CD-RW

- User-edited CD-Rs (Recordable) and CD-RWs (Rewritable) can be played back only if they are already "finalized".
- This system can play CD-Rs or CD-RWs recorded on a personal computer if they have been recorded in the audio CD format.
   This system can also play CD-Rs or CD-RWs if MP3, WMA,
   JPEG or MPEG4 files are recorded on them.

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

Especially, the configuration and characteristics of an MP3, WMA, JPEG or MPEG4 disc are determined by the writing (encoding) software and hardware used for recording. Therefore, due to the software and hardware used, the following symptoms may occur:

- · Some discs may not be played back.
- Some tracks on an MP3 or WMA disc may be skipped or may not be played back normally.
- Some files on a JPEG or MPEG4 disc may be played back distortedly.
- Before playing back CD-Rs or CD-RWs, read their instructions or cautions carefully.
- CD-RWs may require a longer readout time. This is caused by the fact that the reflectance of CD-RWs is lower than that of regular CDs.

#### Notes on MP3/WMA/JPEG/MPEG4 discs

- MP3/WMA/JPEG/MPEG4 discs (either CD-R or CD-RW) require a longer readout time. (It differs due to the complexity of the directory/file configuration.)
- When making an MP3/WMA/JPEG/MPEG4 disc, select ISO 9660 Level 1 or Level 2 for the disc format.
- This system supports "multi-session" discs (up to 20 sessions).
- This system cannot play "packet write" discs.
- The system can only play MP3/WMA/JPEG/MPEG4 files with the following file extensions;

MP3:

".MP3", ".Mp3", ".mP3" and ".mp3"
".wma", ".WMA" and any uppercase and lowercase WMA: combination (such as ".Wma")

".jpg", ".jpeg", ".JPG", ".JPEG" and any uppercase and JPEG: lowercase combination (such as ".Jpg")

MPEG4: ".asf", ".ASF" and any uppercase and lowercase combination (such as ".Asf")

- If different type of files (audio (MP3/WMA), still picture (JPEG), and video (MPEG4) files) are recorded on a disc, set the FILE TYPE setting in the PICTURE menu to the appropriate setting for the data to be read. (F pg. 35)
- The system recognizes up to 150 tracks (files) per group, 99 groups per disc, and the total number of the tracks (files) that the system can play is 1000. For example, if you set FILE TYPE to AUDIO (137 pg. 35) and play a disc that contains 500 MP3 tracks, 200 JPEG files, and 600 WMA tracks, the system can play 500 MP3 tracks and the first 500 of 600 WMA tracks.
- Some MP3/WMA/JPEG/MPEG4 discs may not be played back normally because of their disc characteristics or recording conditions.

#### Notes on MP3/WMA discs only

- The system supports MP3 files recorded with a bit rate of 32 320 kbps and a sampling frequency of 16 kHz, 22.05 kHz, 24 kHz\*, 32 kHz, 44.1 kHz, or 48 kHz.
- If the tag information (album name, artist, and track title, etc.) is recorded on a disc, it appears in the file control display on the TV screen. (F pg. 26)
- We recommend to record each piece of material (song) at a sample rate of 44.1 kHz and at a data transfer rate of 128 (96\*) kbps.
- Some tracks may be skipped or may not be played back normally.
  - \* For WMA only

#### Notes on JPEG discs only

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

## Notes on MPEG4 disc only

- The system supports the types of simple profile as MPEG4 files (MPEG4 SP).
- The system supports MPEG4 files recorded with the maximum bit rate of 384 kbps and an audio codec of G.726. (To play the MPEG4 file, it is required that G.726 formatted audio data is contained in that file.)
- The maximum size of the played picture is at a 352 x 288 pixel resolution (CIF).
- Some files may be skipped or may not be played normally.

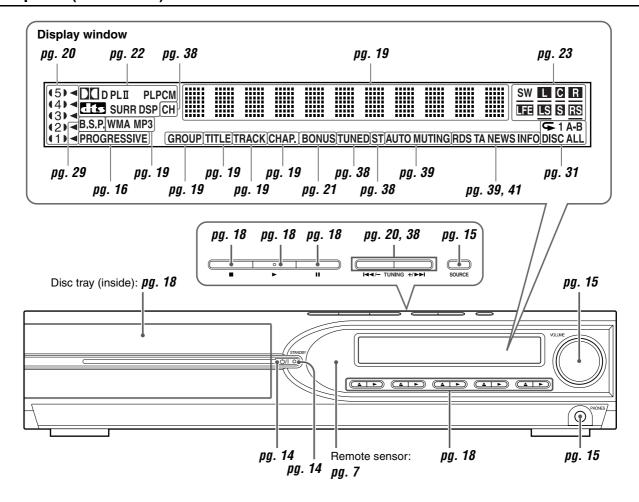
This product incorporates copyright protection technology that is protected by method claims of certain U.S. patents and other intellectual property rights owned by Macrovision Corporation and other rights owners. Use of this copyright protection technology must be authorized by Macrovision Corporation,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

"CONSUMERS SHOULD NOTE THAT NOT ALL HIGH DEFINITION TELEVISION SETS ARE FULLY COMPATIBLE WITH THIS PRODUCT AND MAY CAUSE ARTIFACTS TO BE DISPLAYED IN THE PICTURE. IN CASE OF 525 OR 625 PROGRESSIVE SCAN PICTURE PROBLEMS, IT IS RECOMMENDED THAT THE USER SWITCH THE CONNECTION TO THE 'STANDARD DEFINITION' OUTPUT. IF THERE ARE QUESTIONS REGARDING OUR TV SET COMPATIBILITY WITH THIS MODEL 525p AND 625p DVD PLAYER, PLEASE CONTACT OUR CUSTOMER SERVICE CENTER.'

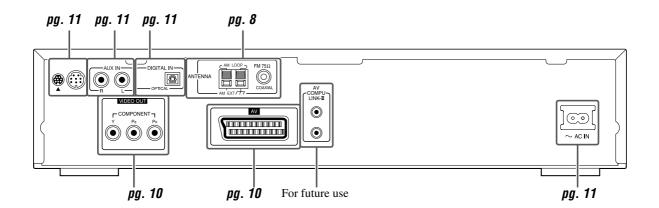
USE OF THIS PRODUCT IN ANY MANNER THAT COMPLIES WITH THE MPEG-4 VISUAL STANDARD IS PROHIBITED. EXCEPT FOR USE BY A CONSUMER ENGAGING IN PERSONAL AND NON-COMMERCIAL ACTIVITIES.

# **Description of parts and controls**

# Front panel (center unit)

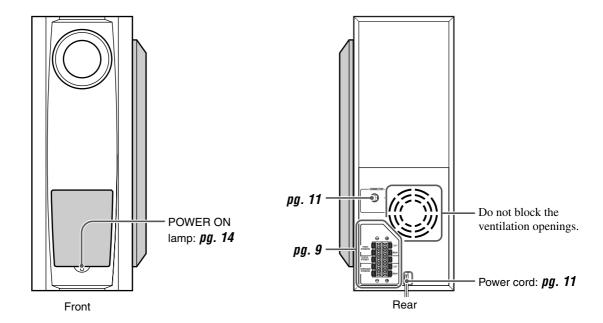


# Rear panel (center unit)



# **Powered subwoofer**

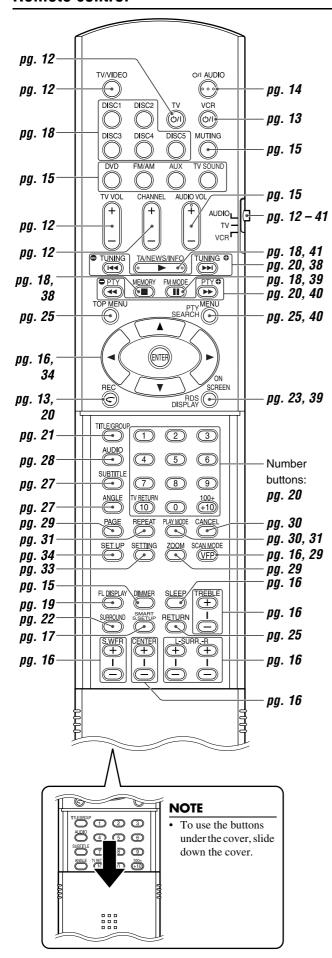
# SP-PWM303



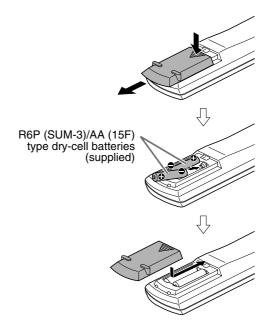
# **NOTE**

 For safety reasons, always ensure that there is sufficient space behind the powered subwoofer.

# Remote control



# Putting batteries in the remote control



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

## **CAUTION**

• Do not expose batteries to heat or flame.

# Operating the system from the remote control

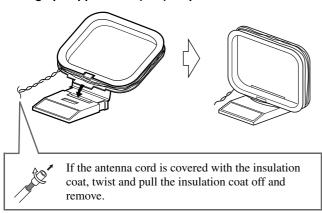
Aim the remote control directly to the front panel of the center unit.

• Do not hide the remote sensor.

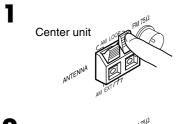
# Connecting the FM and AM (MW) antennas

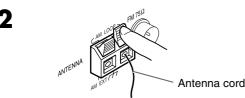
# ■ AM (MW) loop antenna

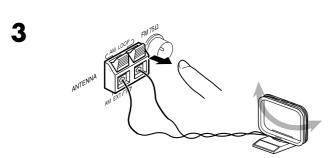
Setting up supplied AM (MW) loop antenna



## Connecting AM (MW) loop antenna





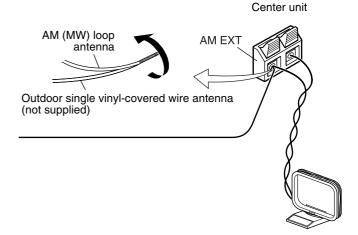


 Turn the loop antenna until you have the best reception during AM (MW) broadcast program reception.

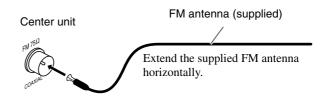
# **NOTE**

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

#### If reception is poor

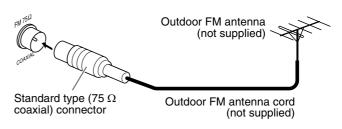


# **■** FM antenna



## If reception is poor

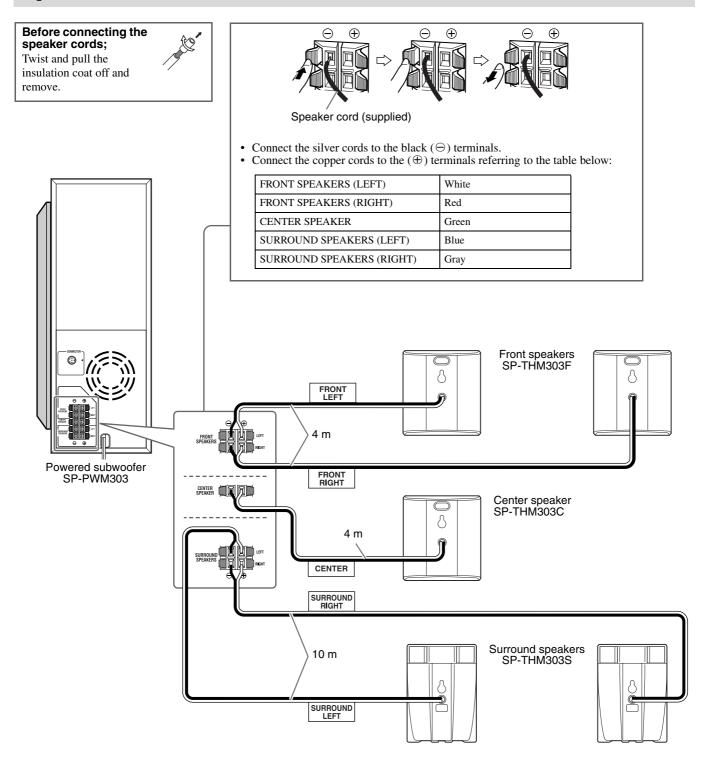
Center unit



## **NOTE**

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

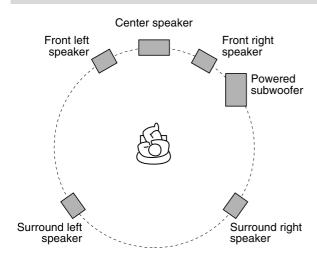
# Connecting the satellite (front, center, surround) speakers



# **CAUTION**

- When you connect speakers other than the supplied ones, use speakers of the same speaker impedance (SPEAKER IMPEDANCE) indicated near the speaker terminals on the rear of the powered subwoofer.
- DO NOT connect more than one speaker to one speaker terminal.
- When installing the satellite speakers on the wall;
  - Be sure to have them installed on the wall by a qualified personnel.
     DO NOT install the satellite speakers on the wall by yourself to avoid unexpected damage from their falling off the wall due to incorrect installation or weakness in wall structure.
  - Care must be taken in selecting a location for speaker installation on a wall. Injury to personnel or damage to equipment may result if the speakers installed interfere with daily activities.

# **Speaker layout**



# **NOTE**

- Although the satellite speakers and the powered subwoofer are magnetically shielded, the TV screen may appear mottled. In this case, keep enough distance between the speakers and the TV.
- The speakers are magnetically shielded to avoid color distortions on TVs. However, if not installed properly, they may cause color distortions. So, pay attention to the following when installing the speakers.
  - When placing the speakers near a TV set, turn off the TV's main power switch or unplug it before installing the speakers. Then wait at least 30 minutes before turning on the TV's main power switch again.

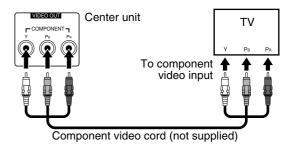
Some TVs may still be affected even though you have followed the above. If this happens, move the speakers away from the TV.

- · Place the satellite speakers on a flat and level surface.
- Be sure to place the powered subwoofer to the TV's right. If you place
  the powered subwoofer to the TV's left, keep sufficient distance
  between them to prevent the TV screen from appearing mottled.

# **Connecting a TV**

- Distortion of picture may occur when connecting to the TV via a VCR, or to a TV with a built-in VCR.
- You need to set "MONITOR TYPE" in the PICTURE menu correctly according to the aspect ratio of your TV. (F) pg. 35)

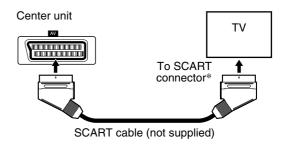
# ■ To connect a TV equipped with the component video input jacks



#### **NOTE**

- If your TV supports progressive video input, you can enjoy a high quality picture by setting the progressive scan mode to active.
   (IP pg. 16)
- If the component video input jacks of your TV are of the BNC type, use a plug adapter (not supplied) to convert the pin plugs to BNC plugs.
- The component video signals can be output only when you select "DVD" as the source to play. ( pp. 15)

# ■ To connect a TV with the SCART connector

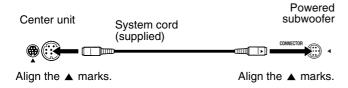


\* Some TV's SCART connectors output audio signal. In such a case, you can enjoy the TV sound through this system.

## **NOTE**

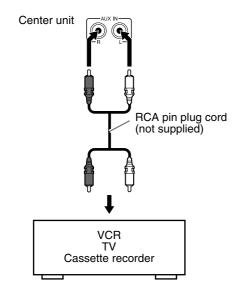
- No sound signal comes out from "AV" (SCART) connector.
- Select the appropriate scan mode according to your TV. See "Changing the scan mode" ( pg. 16).

# **Connecting the powered** subwoofer



# **Connecting to an analog** component

You can enjoy the sound of an analog component.

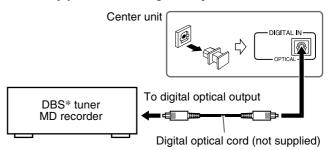


## **NOTE**

- If you connect a sound-enhancing device such as a graphic equalizer between the source components and this system, the sound output through this system may be distorted.
- When playing a video component such as a VCR;
  - To listen to the sound, select "AUX" as the source to play. (F pg. 15)
  - To see the picture, connect the video output jack of the component to the video input jack of the TV directly, and select the correct input mode on the TV.

# **Connecting to a digital** component

You can enjoy the sound of a digital component.



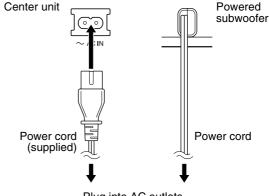
\* DBS = Direct Broadcasting Satellite

When playing a video component such as a DBS tuner;

- To listen to the sound, select "AUX DIGITAL" as the source to play. (F pg. 15)
- To see the picture, connect the video output jack of the component to the video input jack of the TV directly, and select the correct input mode on the TV.

# **Connecting the power**

Make sure that all other connections have been completed.



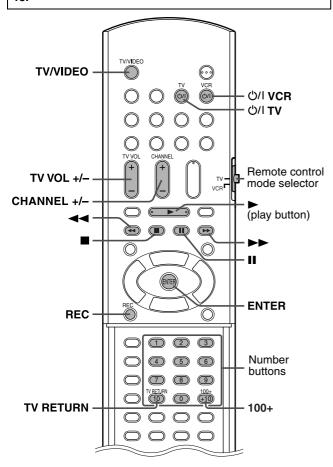
Plug into AC outlets.

## **CAUTION**

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

# Operating external components with the remote control

The buttons described below are used on pages 12 and 13.



## **NOTE**

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

# **Operating the TV**

# ■ To set the manufacturer's code

You can operate a JVC TV without setting the manufacturer's code.

- Slide the remote control mode selector to TV.
- **2** Press and hold O/I TV.

  Keep the button pressed until step 4 is finished.
- 3 Press ENTER.

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

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

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

# 5 Release ७/। TV.

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

## Operation

Aim the remote control at the TV.

# **IMPORTANT**

Before using the remote control to operate a TV;
• Set the remote control mode selector to TV.

The following buttons are available:

O/I TV:Turns TV on and off.TV VOL +/-:Adjusts the volume.

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

VIDEO).

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

TV RETURN: Alternates between the previously selected

channel and the current channel.



# **Operating the VCR**

- To set the manufacturer's code
- 1 Slide the remote control mode selector to VCR.
- **2** Press and hold ७/। VCR.

Keep the button pressed until step 4 is finished.

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

Examples:

For a Panasonic VCR:

Press 2, then 1.

For an Philips VCR:

Press 0, then 5.

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

# 5 Release O/I VCR.

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

## Operation

Aim the remote control at the VCR.

#### **IMPORTANT**

**⋖⋖**∶

Before using the remote control to operate a VCR; Set the remote control mode selector to VCR.

The following buttons are available:

ひ川 VCR: Turns VCR on and off.

▶ (play button): Starts playback.■ : Stops operation.

■ : Pauses playback.

► : Fast forwards video tape.

REC: Press this button together with ▶ (play button) to

start recording or together with II to pause

recording.

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

Rewinds video tape.



# **Basic operations**

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

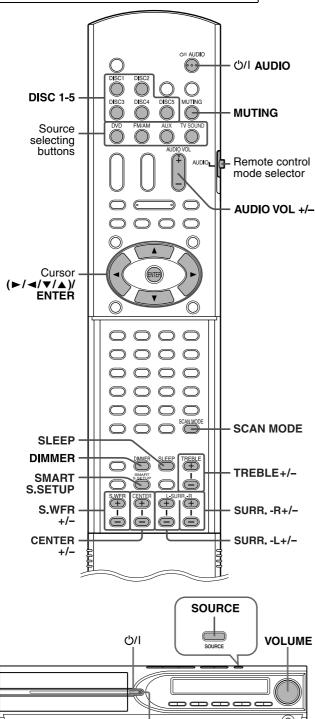
## **IMPORTANT**

Before using the remote control for the following operation;

• Set the remote control mode selector to AUDIO.



The buttons described below are used on pages 14 to 17.



**STANDBY** 

# **Turning the system on/off**

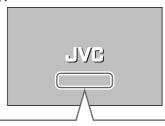
## On the remote control:

Press O/I AUDIO.

## On the center unit:

Press U/I.

When DVD is selected as the source (F pg. 15), the following messages will appear on the TV screen.



- "OPEN"/"CLOSE":
  - Appears when opening or closing the disc tray.
- "NOW READING":
  - Appears when the system is reading the disc information.
- "REGION CODE ERROR!":
  - Appears when the Region Code of the DVD VIDEO does not match the code the system supports. The disc cannot be played back.
- "NO DISC":
  - Appears when no disc is loaded.
- "CANNOT PLAY THIS DISC":
  - Appears when unplayable disc is loaded.

# NOTE

- The STANDBY lamp turns on when the power is turned off and turns off when the power is turned on.
- The power supply to the subwoofer is linked to the center unit. The POWER ON lamp on the subwoofer lights green when the power is turned on.
- A small amount of the power is consumed even when the power is turned off (center unit only). This is called standby mode and the STANDBY lamp lights in this mode. Unplug the power cord from the AC outlet to turn the power off completely.
- You can also turn on the system by pressing the following buttons;
  - One of  $\triangle$  buttons on the center unit
  - One of the source selecting buttons on the remote control  $% \left( 1\right) =\left( 1\right) \left( 1\right)$

**PHONES** 

# Selecting the source to play

# On the remote control:

# Press one of the source selecting buttons (DVD, FM/AM, AUX or TV SOUND).

DVD: To play back a disc (DVD VIDEO, VCD etc.).

(F pg. 18)

FM/AM: To tune in an FM or AM (MW) station. (F pg. 38)

Each time you press the button, the band alternates

between FM and AM (MW).

AUX: To select the source from a component connected to

the AUX IN jacks or DIGITAL IN jack. ( pg. 11) Each time you press the button, the source alternates

between "AUX" and "AUX DIGITAL".

TV SOUND: To select the TV (that outputs sound signals)

connected to the AV (SCART) connector. ( $\square$  pg. 10)

#### On the center unit:

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

# **NOTE**

- When a source except DVD is selected, this system does not output video signals.
- · It may take time to change the source.

# Adjusting the volume [VOLUME]

# **CAUTION**

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

## On the remote control:

Press AUDIO VOL + or -.

On the center unit:

Turn VOLUME.

# Listening with headphones (not supplied)

## **CAUTION**

Be sure to turn down the volume;

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

While connecting a pair of headphones to the PHONES jack on the center unit, the system automatically cancels the surround mode (F) pg. 22) currently selected, deactivates the speakers, turn the subwoofer's power off, and activates the headphone mode. "HEADPHONE" appears on the display window.

## Headphone mode

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

- For 2 channel sources, the front left and right channel signals are output from the headphones.
- Multi-channel signals are down-mixed and output from the headphones.
- (DVD AUDIO) When the disc prohibits down-mixing, only the front left and right channels are output from the headphones. In this case, "L/R ONLY" appears on the display window for a few seconds.

# Turning off the sound temporarily [MUTING]

## Press MUTING.

#### To restore the sound

Perform one on the following:

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

# Adjusting the brightness of the indications [DIMMER]

## Press DIMMER.

Each time you press the button, the brightness level changes.

# **Sleep Timer [SLEEP]**

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

#### Press SLEEP.

Each time you press the button, the shut-off time changes. Example:



## To check the remaining time

Press SLEEP once.

#### To change the remaining time

Press SLEEP repeatedly.

#### To cancel

Press SLEEP repeatedly until "SLEEP OFF" appears.

• Turning off the power also cancels the Sleep Timer.

# Adjusting the output level of the subwoofer and center/surround speakers [SUBWFR, CENTER, SURR L/R]

Press S.WFR +/- to adjust the subwoofer. Press CENTER +/- to adjust the center speaker.

Press SURR.-L +/- to adjust the surround left speaker.

Press SURR.-R +/- to adjust the surround right speaker.

# NOTE

- You can also make adjustments by using the setup menu shown on the TV screen. (Pp. 35)
- The adjustments take effect for all sources.
- You cannot make this adjustment when FM or AM is selected as the source.

# Adjusting the treble sound [TREBLE]

Press TREBLE +/-.

# NOTE

• The adjustments take effect for all sources.

# **Changing the scan mode**

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

# NOTE

- To use the system in PROGRESSIVE mode, it is required that the center unit is connected to the TV by using a component video cord (not supplied). ( pg. 10)
- While DVD is selected as the source and stopped

# Press and hold SCAN MODE for 2 seconds.

"RGB", "Y/C", or "PROGRESSIVE" appears on the display window.

# 

• RGB: Select this when your TV accommodates

the interlaced RGB/composite video

signal.

• Y/C: Select this when your TV accommodates

the interlaced S-video signal.

• PROGRESSIVE: Select this when your TV equipped with

component jacks supports the progressive

video input.

You can get better picture quality in the order — "PROGRESSIVE" > "RGB" > "Y/C" > Composite.

# 3 Press ENTER while the selected mode is displayed.

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

#### **NOTE**

- Although the picture may be distorted when you press ENTER, this
  is not a malfunction of the system.
- · "RGB" is selected at your purchase.
- There are some progressive TVs and High-Definition TVs that are not fully compatible with this system, resulting in an unnatural picture when playing back a DVD VIDEO in the progressive scan mode. In such a case, change the scan mode to "RGB" or "Y/C".
   To check the compatibility of your TV, contact your local JVC customer service center.
- All JVC progressive TVs and High-Definition TVs are fully compatible with this system.

# Optimizing the speaker settings [Smart Surround Setup]

## **NOTE**

- When you change the positioning of the speakers or listener, or replace the supplied speakers with other ones, perform Smart Surround Setup again.
- While DVD is selected as the source and stopped
- Take your position where you listen to the sound.
- **2** Press and hold SMART S.SETUP.



"SETTING UP" flashes on the display window.

3 Press ENTER, press Cursor ▼/▲ to select the distance between the front speakers and the listening position, then press ENTER.



- **4** Press Cursor **▼**/**▲** to select START, then press ENTER.
- **5** Clap your hands over your head once.
- 6 Make sure that "COMPLETED!" appears on the TV screen, then press SMART S.SETUP.

The system detects your clapping sound through the satellite speakers, then automatically makes the best settings for each speaker. "COMPLETED!" appears on the TV screen when Smart Surround Setup completes.

#### When "FAILED!" appears on the TV screen

The system could not detect the clapping sound correctly. In such a case, follow the instructions that appears on the TV screen.

 When the system detects the clapping sound as "FAILED!" three times, set the distance (DISTANCE) and the output level (LEVEL) manually (Fg. 235).

#### To cancel

Press SMART S.SETUP.

#### NOTE

- You need to set the subwoofer's output level (LEVEL) manually.
   (IF pg. 16 or 35)
- In step 2, "SW ERROR" appears on the display window if the center unit and the powered subwoofer are not connected correctly by using the supplied system cord.

# **Playback**

• The icon such as shows the types of discs the operation is available for.

#### **IMPORTANT**

Before using the remote control for the following operation;

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



# The buttons described below are used on pages 18 to 21. **DISC (1-5)** DVD (play button) Remote control mode selector **ENTER** TITLE/GROUP **(5) (6)** Number buttons 8 9 (10) (0) (+10) FL DISPLAY -

DISC (1-5) ≜/▶

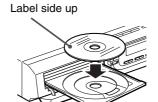
# **Basic playback**

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



• The system turns on and the disc tray comes out.

# 2 Place a disc.





# **3** Press DISC (1-5).

#### For MP3/WMA disc

The file control display (F pg. 26) appears on the TV screen.

#### For JPEG disc

Each file (still pictures) is shown on the TV screen for about 3 seconds (slide-show). When stopping playback, the file control display (Fig. 26) appears on the TV screen.

# For MPEG4 disc

Pressing TOP MENU or MENU shows the file control display (F) pg. 26) on the TV screen during playback.

# **■** To pause playback

## Press II.

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

## ■ To stop

# Press ■.

# ■ On-screen quide icons

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

- in: appears at the beginning of a scene containing multisubtitle languages.
- 🕮: appears at the beginning of a scene containing multi-angle views.
- (Play), (Pause), (Fast forward/fast-reverse); (Slow-motion forward/reverse): appears when you perform each operation.
- the disc cannot accept an operation you have tried to do.

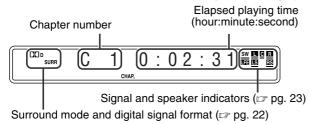
## **NOTE**

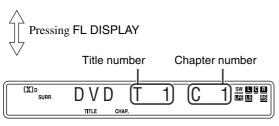
- Up to 5 discs can be loaded.
- You can also start playback by pressing ► (play button) or DVD.
- The system plays back available discs sequentially until you stop playback or until the disc loaded on the DISC 5 tray reaches to the
- (For JPEG) The system cannot accept operations even though you press any buttons before the entire picture appears on the TV screen.
- If you do not want the on-screen guide icons to appear, see page 36.

# Playback information on the display window **DVD VIDEO**

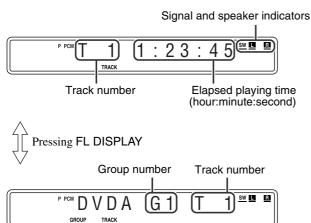
Example:

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





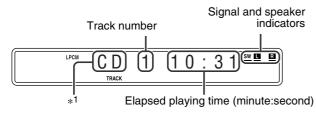
#### **DVD AUDIO**



# VCD/SVCD/CD

Example:

When a CD is played back



<sup>\*1</sup> VCD indication appears for VCD/SVCD.

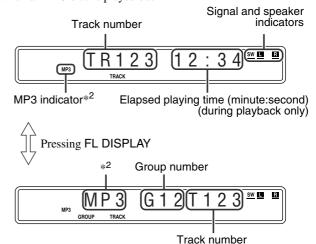
# **NOTE**

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

#### MP3/WMA disc

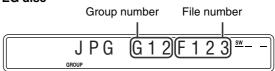
Example:

When an MP3 disc is played back

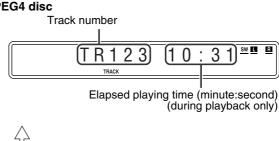


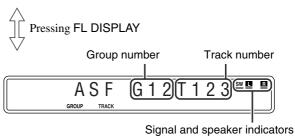
<sup>\*2</sup> WMA indicator lights for WMA disc.

## JPEG disc



#### MPEG4 disc





# **NOTE**

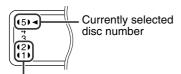
- You can change the time information mode (except for MP3/WMA/ JPEG/MPEG4). (127 pg. 24)
- You can also check the playback information on the TV screen. (F pg. 23)

# ■ Disc information on the display window

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

Example:

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



Currently loaded disc number

## Screen saver

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

- · Pressing any button will cancel the screen saver function.
- If you do not want to use the screen saver function, see page 35.

# **One Touch Replay**

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



During playback

#### On the remote control:

Press ←.

## **NOTE**

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

# Fast-forward/fast-reverse search













# ■ During playback

# On the remote control:

# Press ▶▶ or ◀◀.

Each time you press the button, the search speed changes  $(\times 2,$  $\times 5, \times 10, \times 20, \times 60$ ).

#### To return to normal speed playback

Press ► (play button).

# On the remote control and the center unit:

#### Press and hold ▶▶ or ◄◄.

Continuously pressing ▶►I or I◄◄ increases the fast-forward/ reverse search speed ( $\times 5 \rightarrow \times 20$ ).

#### **NOTE**

- The operation with ▶▶ or I◄◄ above is available for a disc other than MPEG4 disc.
- When a DVD VIDEO, VCD, SVCD, or MPEG4 disc is played back. no sound comes out during fast-forward/reverse search.
- When a DVD AUDIO or CD is played back, sound is intermittent and low during fast-forward/reverse search.
- · This feature may not work for some discs.

# Skip to the beginning of a desired selection

# ■ Using ▶►I/I◄◀ buttons

**VCD** SVCD VIDEO AUDIO ■ For DVD VIDEO (chapter): MPEG CD During playback For VCD/SVCD (track):

During playback without PBC function

For DVD AUDIO/CD/MP3/WMA/JPEG/MPEG4 (track/file): During playback or while stopped

# Press **▶▶** or **▶◄** repeatedly.

#### **NOTE**

- When playing back an MP3/JPEG disc, you can make operations using the file control display. (F pg. 26)
- · This feature may not work for some discs.

# Using number buttons on the remote control

For DVD VIDEO (title, chapter): While stopped, the title number is selected. During playback, the chapter number is selected.

For DVD AUDIO (track):

During playback or while stopped

For VCD/SVCD (track):

During playback without PBC function For CD/MP3/WMA/JPEG/MPEG4 (track/file):

During playback or while stopped

# Press number buttons (0-10, +10) to select the desired number.

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

# How to use the number buttons

To select 3: Press 3

To select 14: Press +10, then 4. To select 24: Press +10 twice, then 4.

Press +10 three times, then 10. To select 40: Or press +10 four times, then 0.

# Locating a desired title/ group using number **buttons**

■ During playback or while



# Press TITLE/ GROUP.

"\_\_" or "\_" is shown in the title/group display area in the display window.

Example:

During DVD VIDEO playback

1:23:45

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

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

• For details on using the number buttons, see "How to use the number buttons" (F pg. 20).

# NOTE

· This feature may not work for some discs.

# Playing back a bonus group

Some DVD AUDIOs have a special group called "bonus group" whose contents are not open to the public. The AUDIO bonus group is always assigned to the last group of a disc. To play back a bonus group, you have to enter the specific "key number" (a password). The way of getting the key number depends on the disc. After getting the key number, you can play back the bonus group by following the procedure below.

■ While the BONUS indicator lights up on the display window

# Select the bonus group.

For selecting the group, see "Locating a desired title/group using number buttons" described above.

The key number entry indication appears.

On the TV



On the display window



# **2** Press number buttons (0-9) to enter the key number, then press ENTER.

When you enter the correct key number, playback starts and the BONUS indicator goes off.

• If you enter the wrong number, reenter the correct number.

#### To clear the key number entry

Perform whichever one of the following:

- Press ■.
- · Open the disc tray.
- Turn off the system.

# NOTE

• In Random Playback, tracks in the bonus group are not played back.

# **Advanced operations**

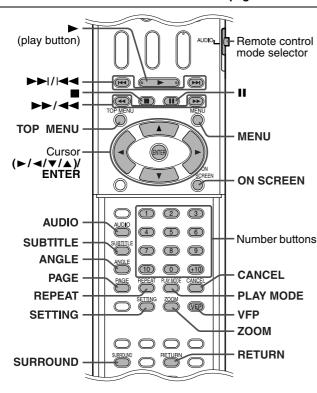
• The icon such as shows the types of discs the operation is available for.

## **IMPORTANT**

Before using the remote control for the following operation;

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

## The buttons described below are used on pages 22 to 33.



# **Using the surround mode**

# ■ Auto Surround (AUTO SURR)

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

# **■** Dolby Surround

# Dolby Pro Logic II\*1

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

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

## • Pro Logic II Movie (PL II MOVIE)

Suitable for reproduction of Dolby Surround encoded sources bearing the mark  $\square\square$  (DOLDEY SURROUND).

## • Pro Logic II Music (PL II MUSIC)

Suitable for reproduction of any 2 channel stereo music sources.

# Dolby Digital\*1

Used to reproduce multichannel soundtracks of the software encoded with Dolby Digital (DC|DCM).

# **■** DTS Digital Surround\*<sup>2</sup>

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

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

## Available Surround modes for each input signal

The  $\sqrt{\text{marks show available surround modes}}$ .

Mode	Surround off	Auto Surround	Dolby Surround		DTS Digital Surround	Linear PCM	Packed PCM	DSP	
Signal	SURR OFF	AUTO SURR	PL II MOVIE*3	PL II MUSIC*3	Dolby Digital	DTS	LPCM	PPCM	ALL CH ST.*3
Dolby Digital (Multichannel)	V	V	_	_	√	_		_	_
Dolby Digital (2 channel)	V	$\sqrt{}$	√	$\checkmark$	_	_	_	_	<b>V</b>
DTS Digital Surround (Multichannel)	V	V	_	_	_	V	_		_
DTS Digital Surround (2 channel)	V	V	V	V	_	_	_	_	<b>V</b>
Analog (VCR) or Linear/Packed PCM (2 channel)	V	V	V	V	_	_	_	_	<b>V</b>
Linear/Packed PCM (Multichannel)	V	V	_	_	—	_	V	V	_

\*1 Manufactured under license from Dolby Laboratories. "Dolby", "Pro Logic", "MLP Lossless", and the double-D symbol are trademarks of Dolby Laboratories.
\*2 "DTS" and "DTS

Digital Surround" are registered trademarks of Digital Theater Systems, Inc.

You can select these modes by pressing SURROUND.
(F) pg. 23)

Continued on next page

# ■ All Channel Stereo (DSP)

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

Normal stereo sound







# Indicators on the display window

# Digital signal format indicators

PPCM: Lights when DVD AUDIO packed PCM signals

comes in.

LPCM: Lights when Linear PCM signal comes in.

DDD: Lights when Dolby Digital signals come in.

Lights when DTS Digital (Surround) signals

come in.

No indication: No digital signal indicator lights when analog

signals come in.

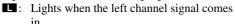
# **Dolby Surround/DSP mode indicators**

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

DSP: Lights when All Channel Stereo mode is activated.

## Source signal indicators, etc.

Light to indicate the incoming signals.



**C**: Lights when the center channel signal comes in.

**R**: Lights when the right channel signal comes in.

**III**: Lights when the LFE channel signal comes in.

Lights when the surround left channel signal comes in.

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

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

SW: Always lights.

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

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

# Selecting the surround mode

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

## **IMPORTANT**

Before using the remote control for the following operation;

• Set the remote control mode selector to AUDIO.



SW L C R

LFE LS S RS

# When playing back digital multichannel software (except during SURR OFF mode)

The appropriate multichannel surround mode (Dolby Digital, DTS Digital Surround or Linear/Packed PCM) is automatically selected.

## ■ When playing back 2 channel source

You can select either mode of Dolby Pro Logic II (PL II MOVIE/PL II MUSIC) or the DSP (ALL CH ST.) mode.

# Press SURROUND repeatedly to select the desired mode.

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

Each time you press the button, the surround mode changes.

For details on each mode, see page 22.

#### To turn off the surround mode

# Press SURROUND repeatedly until SURR OFF appears on the display window.

## Storing adjustments — auto memory

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

#### NOTE

- When FM or AM is selected as the source, you cannot select any surround mode.
- Note that the surround mode takes no effect on MPEG4 playback.
- For a down-mixing prohibited DVD AUDIO disc, the system
  continues to output multi-channel signals with "MULTI CH" shown
  on the display window even if the surround mode is turned off during
  playback. On the other hand, the system outputs only the front left and
  front right channel signals with "LR ONLY" shown on the display
  window when you start playback with the surround mode having been
  set to "SURR OFF".

# Using the on-screen bar

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

# Showing the on-screen bar

■ Whenever a disc is loaded







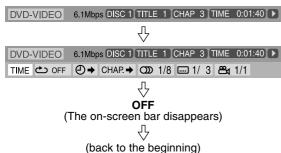


# Press ON SCREEN.

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

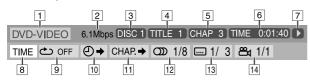
Example:

During DVD VIDEO playback

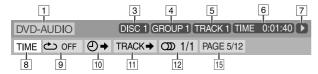


• The currently selected item shows green.

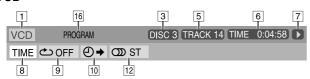
# ■ Contents of the on-screen bar during playback DVD VIDEO



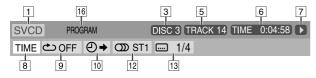
# **DVD AUDIO**



## VCD



# SVCD



## CD



# MPEG4\*



\* 8 - 15 are not available.

- 1 Shows disc type.
- 2 Shows current transfer rate (Megabits per second).
- 3 Shows disc number.
- 4 Shows current title (for DVD VIDEO) or group (for DVD AUDIO) number.
- 5 Shows current chapter number (for DVD VIDEO) or track number (for other type of discs).
- Shows time information. See "Changing the time information" below.
- 7 Shows playback status.
  - appears during playback.
  - / (4): appears during fast forward/reverse.

  - appears when paused.
  - appears when stopped.
- 8 Select this to change time information (6). See "Changing the time information" below.
- 9 Select this for Repeat Playback. ( pg. 31)
- 10 Select this for time search function. (LF pg. 26)
- 11 Select this for chapter (for DVD VIDEO) or track (for DVD AUDIO) search function. (Fig. pg. 25)
- 12 Select this to change audio language, channel, or stream. (F) pg. 28)
- 13 Select this to change subtitle language. (13 pg. 27)
- 14 Select this to change view angle. (12 pg. 27)
- 15 Select this to change the page. (13 pg. 29)
- 16 Shows Playback Mode status. PROGRAM: appears during Program Playback. ( pp. 30) RANDOM: appears during Random Playback. ( pp. 31)
- 17 Shows Repeat Mode status. ( pg. 31)

# Changing the time information

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





During playback

# Press ON SCREEN twice.

The on-screen bar appears on the TV screen.

# **2** Press Cursor ►/⊲ to highlight TIME.

# 3 Press ENTER repeatedly to select the desired information.

Example:

When elapsed playing time of disc is selected.

#### TOTAL 1:25:58

- TIME: Elapsed playing time of current chapter/track
- REM: Remaining time of current chapter/track
- · TOTAL: Elapsed time of disc
- T. REM: Remaining time of disc

# 4 Press ON SCREEN.

The on-screen bar disappears.

# Playing from a specified position on a disc

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

# Locating a desired scene from the DVD menu

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

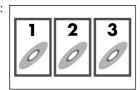


■ Whenever a DVD VIDEO is loaded

# Press TOP MENU or MENU.

The menu appears on the TV screen.

Example:



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

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

See the instructions for each DVD VIDEO regarding its particular menu.

- 2 Use Cursor ►/◄/▼/▲ to select a desired item.
- 3 Press ENTER.
  - With some discs, you can also select items by entering the corresponding number using number buttons.

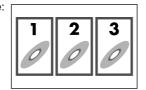
# Locating a desired scene using a VCD/ SVCD menu with PBC

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



- During playback with PBC function
- Press RETURN repeatedly until the menu appears on the TV screen.

Example:



# 2 Press number buttons (1-10, +10) to select the number of the desired item.

• For details on using the number buttons, see "How to use the number buttons" (FF pg. 20).

#### To return to the menu

Press RETURN.

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

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

#### **NOTE**

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

The track number appears on the display window instead of "PBC".

- To activate the PBC function when playing a PBC-compatible VCD/ SVCD without using the PBC function, perform any of the following:
- Press TOP MENU or MENU.
- Press twice to stop playback, then press ► (play button).

# Locating a desired chapter/track using the on-screen bar

- During playback
- Press ON SCREEN twice.



een.

The on-screen bar appears on the TV screen.

- 2 Press Cursor ►/◄ to highlight CHAP.→/
- **3** Press ENTER.

Example:

During DVD VIDEO playback



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

Example:

To select 8: Press 8.
To select 10: Press 1, then 0.
To select 20: Press 2, then 0.
To select 37: Press 3, then 7.

## To correct a misentry

Repeat step 4.

# **5** Press ENTER.

# **6** Press ON SCREEN.

The on-screen bar disappears.

#### NOTE

• You can select up to the 99th chapter/track.

# Locating a desired position by specifying the time

■ For DVD VIDEO/DVD AUDIO:

DVD DVD VCD SVCD

During playback

For VCD/SVCD:

While stopped or during playback without PBC function For CD:

During playback or while stopped

■ When specifying the elapsed playing time from the beginning of the disc

Perform the following procedure while stopped.

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

Perform the following procedure during playback.

Press ON SCREEN twice.

The on-screen bar appears on the TV screen.

**2** Press Cursor ►/◄ to highlight ⊕→.

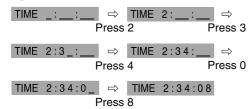
**3** Press ENTER.



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

Example:

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



To cancel a misentry

**5** Press ENTER.

6 Press ON SCREEN.

The on-screen bar disappears.

#### NOTE

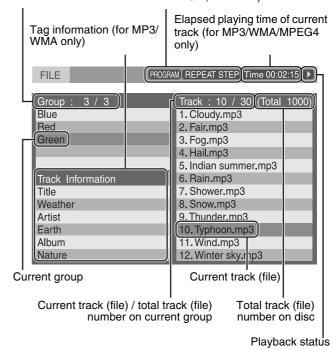
 You can specify time in hours/minutes/seconds for DVD VIDEO/ DVD AUDIO and in minutes/seconds for VCD/SVCD/CD.

# Using the file control display

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



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



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

■ For MP3/WMA:
During playback or while stopped
For JPEG/MPEG4:
While stopped

# Press Cursor ►/◄/▼/▲ to select the desired group/track/file.

• For MP3/WMA, playback starts from the selected track.

# 2 Press ► (play button) or ENTER.

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

# **NOTE**

- During playback, you can locate the desired track/file by pressing
   ▶► //►
   Or Cursor
   ✓▼.
- You can also check playback information on the display window.
   ( pg. 19)
- Some group, track and file names may not be displayed correctly depending on recording conditions.
- The order of groups, tracks and files may be displayed differently from the order displayed on your personal computer.

# **Resume Playback**

When Resume Playback is set to "ON" ( pg. 36) and you stop playback by the following



operations, the position where playback has been stopped is stored. ("RESUME" appears on the display window.)

- Turning off the power ( pg. 14)
- Pressing once
- Changing the source (F pg. 15)

## To start playback from the stored position

Press ► (play button) or DVD.

 There may be a case where ► (play button) does not work after changing the source.

## To clear the stored position

Press ■ again or open the disc tray with the playback disc.

# Selecting a view angle

 During playback of a disc containing multi-view angles



## When using the ANGLE button:

# Press ANGLE.

Example:

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



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

# When using the on-screen bar:

- Press ON SCREEN twice.
  - The on-screen bar appears on the TV screen.
- **2** Press Cursor ►/ **<** to highlight **≅**<sub>1/3</sub>.
- 3 Press ENTER.



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

The on-screen bar disappears.

## **NOTE**

 During DVD AUDIO playback, this feature is available only for the video part.

# **Selecting the subtitle**

 During playback of a disc containing subtitles in several languages



# When using the SUBTITLE button:

# Press SUBTITLE.

Example (DVD VIDEO):

"ENGLISH" is selected out of 3 subtitle languages recorded.



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

For SVCD

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

#### NOTE

 To clear the subtitle, press SUBTITLE. Each time you press SUBTITLE, subtitle appears and disappears alternately.

# When using the on-screen bar:

Press ON SCREEN twice.

The on-screen bar appears on the TV screen.

- **2** Press Cursor ►/◄ to highlight 1/3.
- Press ENTER.



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

The on-screen bar disappears.

#### **NOTE**

- To clear the subtitle, press SUBTITLE. Each time you press SUBTITLE, subtitle appears and disappears alternately.
- Some subtitle or audio languages are abbreviated in the pop-up window. See "The language codes list" ( pg. 34).
- During DVD AUDIO playback, this feature is available only for the video part.

# Selecting the audio

■ During playback of a disc containing audio in several languages



## When using the AUDIO button:

# Press AUDIO.

Example (DVD VIDEO):

"ENGLISH" is selected out of 3 audio languages recorded.



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

# When using the on-screen bar:

**Press ON SCREEN twice.** 

The on-screen bar appears on the TV screen.

- Press Cursor ►/ to highlight ② 1/3.
- Press ENTER.



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

The on-screen bar disappears.

## **NOTE**

- Some subtitle or audio languages are abbreviated in the pop-up window. See "The language codes list" (F pg. 34).
- "ST", "L" or "R" is displayed when playing a VCD or SVCD respectively representing "stereo", "left sound" and "right sound".

# Special picture playback

DVD

# Frame-by-frame playback

■ During playback

# Press II repeatedly.

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

## To return to normal playback

Press ► (play button).

#### **NOTE**

• During DVD AUDIO playback, this feature is available only for the video part.

# Playing back in slow-motion

- During playback
- Press II at the point DVD NIDEO AUDIO VCD SVCD where you want to start playback in slow-motion from.

The system pauses playback.

- **2** Press ▶▶.
  - Playback in forward slow-motion starts.

For DVD VIDEO/DVD AUDIO only:

To play back in reverse slow-motion, press ◄

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

Example: On the TV



# To return to normal playback

Press ► (play button).

## **NOTE**

- Sound cannot be heard during slow-motion playback.
- · During DVD AUDIO playback, this feature is available only for the video part.

# Selecting browsable still picture recorded on DVD AUDIO

Most DVD AUDIOs include browsable still pictures (B.S.P.), which usually appear by turns automatically during playback according to the playback sequence. You can change the picture (turn the page) manually when the current group/track has selectable pictures (pages).

■ During playback and while the B.S.P. indicator lights up on the display window

# When using the PAGE button:

Press PAGE repeatedly to select a desired still picture.

When using the on-screen bar:

- Press ON SCREEN twice.
  The on-screen bar appears on the TV screen.
- 2 Press Cursor ►/◄ to highlight PAGE
- 3 Press ENTER.



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

The on-screen bar disappears.

# Zooming in

- During playback or while paused DVD NIDEO DVD AUDIO VCD SVCD JPEG MPEG 4
- Press ZOOM.

Each time you press ZOOM, scene magnification changes.

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

## To return to normal playback

Press ZOOM repeatedly to select ZOOM OFF.

#### NOTE

- The number of the magnification steps varies depending on the disc type.
- During slide-show playback of a JPEG disc, zooming in is not available. In such a case, press 
   ■ to pause slide-show playback, then zoom in.
- During DVD AUDIO playback, this feature is available only for the video part.
- During MPEG4 playback, there may be a case where Cursor ►/◄/
   ▼/▲ does not work in step 2 above.

# **Changing the VFP setting**

The VFP (Video Fine Processor) function enables you to adjust



the picture character according to the type of programming, picture tone or personal preference.

■ During playback

# Press VFP.

The current VFP settings appear on the TV screen.

Example:



# 2 Press Cursor ►/ < repeatedly to select the VFP mode.

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

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

• USER 1 and USER 2:

You can adjust parameters that affect picture appearance.

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

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

Adjust gradually and confirm picture appearance results are as preferred.

• GAMMA:

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

• BRIGHTNESS:

Controls screen brightness.

• CONTRAST:

Controls screen contrast.

• SATURATION:

Controls screen color depth.

• TINT:

Controls screen tint.

• SHARPNESS: Controls screen sharpness.

# 4 Press ENTER.

Example:



- 5 Press Cursor ▼/▲ to change the setting.
- 6 Press ENTER.

The current VFP settings appear again.

- 7 Repeat steps 3 to 6 to adjust other parameters.
- 8 Press VFP.

## **NOTE**

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

# **Program Playback**

■ While stopped



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



USE NUMERIC KEYS TO PROGRAM TRACKS. USE CANCEL TO DELETE THE PROGRAM.

# **2** Follow the instructions that appears on the TV screen to program the desired chapters/ tracks.

- For details on using the number buttons, see "How to use the number buttons" ( $\mathbb{L}\mathbb{F}$  pg. 20).
- The content's numbers that you have to specify for programming varies depending on the disc type:
  - DVD VIDEO: Titles and chapters
  - · VCD, SVCD, CD: Tracks
  - · DVD AUDIO, MP3, WMA:

Groups and tracks

- Before you program the tracks in bonus group on a DVD AUDIO, perform the procedure of "Playing back a bonus group" ( pg. 21) to turn off the BONUS indicator on the display window.
- You can specify the chapters/tracks whose number is up to 99.
- There may be a case that the group or title number can be entered even for discs that contains no groups or titles. In such a case, press ENTER to proceed to the Track/Chaper column.
- When you press ENTER instead of the number buttons in the Track/Chaper column, "ALL" appears and all the tracks or chapters on the selected group or title are programmed as a step.

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

Press CANCEL repeatedly.

#### To clear all programs

Press ■.

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

# **3** Press ► (play button).

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

#### To check the program contents

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

# To quit the Program mode

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

#### NOTE

- There may be a case where bonus group on a DVD AUDIO cannot be played.
- The Resume function cannot be used with Program Playback.
- Program Playback may not work for some discs.

# **Random Playback**

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



- While stopped
- Press PLAY MODE repeatedly until RANDOM appears on the TV screen.
- 2 Press ► (play button).
  - When more than one discs are loaded, the system starts Random Playback of the next disc after completing current disc playback.

#### To quit Random mode

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

You can also clear the Random mode by turning off the system.

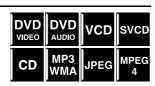
#### NOTE

 The same title/track will not be played back more than once during Random Playback.

# **Repeat Playback**

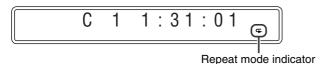
# Repeating the current selection or all discs

■ For DVD VIDEO:
During playback
For VCD/SVCD:
During playback without PBC function or stopped
For DVD AUDIO/CD/MP3/
JPEG/MPEG4:



During playback or stopped

# When using the REPEAT button: Press REPEAT.



Each time you press REPEAT, the Repeat mode changes.

Display window	TV screen	Meanings		
G	REPEAT GROUP*	Repeats the current group for DVD AUDIO/MP3/WMA/JPEG/MPEG4 disc.		
	<b>⇔</b> TITLE	Repeats the current title for DVD VIDEO.		
	<b>DISC</b>	Repeats all tracks on the		
<b>☞</b> DISC	REPEAT DISC*	current disc for VCD/SVCD/ CD/MP3/WMA/JPEG/ MPEG4.		
C ALL	<b>⇔</b> ALL	Repeats all the available discs.		
₩ ALL	REPEAT ALL*			
	₾TRACK, ₾STEP	Repeats the current track for		
<b>G</b> 1	REPEAT TRACK, REPEAT STEP	DVD AUDIO/VCD/SVCD/ CD/MP3/WMA/MPEG4 disc.		
	CHAP, CSTEP	Repeats the current chapter for		
	REPEAT STEP	DVD VIDEO.		
No indication	<b>₾</b> OFF	Repeat mode is off. The system plays back all available discs normally.		

During playback of a JPEG disc, "REPEAT GROUP", "REPEAT DISC" and "REPEAT ALL" do not appear on the TV screen.

#### **NOTE**

- When the Program mode is active with a DVD AUDIO, VCD, SVCD, or CD, the Repeat mode changes in the same manner.
   Note that, however, in the " mode the system repeats all the programmed tracks, instead of all tracks on the disc.
- For DVD VIDEO and DVD AUDIO, REPEAT ALL and REPEAT DISC may not be available depending on the disc.

When using the on-screen bar (except for MP3/WMA/JPEG/MPEG4 disc):

- Press ON SCREEN twice.
  - The on-screen bar appears on the TV screen.
- **2** Press Cursor ►/◄ to highlight △ OFF.
- **3** Press ENTER.



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

The on-screen bar disappears.

To cancel Repeat Playback

Select "OFF" in step 4.

# Repeating a desired part [A-B Repeat]

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



- During playback
- Press ON SCREEN twice.

The on-screen bar appears on the TV screen.

- **2** Press Cursor ►/◄ to highlight ⇔ off.
- 3 Press ENTER.



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



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

A-B Repeat Playback starts.

**7** Press ON SCREEN.

The on-screen bar disappears.

#### To cancel

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

#### NOTE

- When playing back a DVD VIDEO, A-B Repeat Playback is possible only within the same title.
- "A-B" cannot be selected during Program and Random Playback.

# **Tray lock**

You can lock trays and prohibit the unwanted disc ejection.

# On the center unit ONLY:

While the system is turned off



- The system turns on and "LOCKED" appears on the display window.
- If you try to eject discs, "LOCKED" appears to indicate that trays are locked.

## To cancel

Carry out the same operation again.

 The system turns on and "UNLOCKED" appears on the display window.

# **Sound and other settings**

# **IMPORTANT**

Before using the remote control for the following operation;

 Set the remote control mode selector to AUDIO.

# AUDIO

# NOTE

Before you start operation;

 There is a time limit when doing the following steps. If the setting is cancelled before you finish, start from step 1 again.

# Press SETTING.

Example:

BAL: CENTER

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

• BAL (Balance):

You can adjust the balance between the front left and front right speakers.

• DEC (Decode):

When you play an external source (AUX DIGITAL is selected as a source) that was encoded with Dolby Digital or DTS Digital Surround, the following symptoms may occur;

- No sound comes out at the beginning of playback.
- Noise comes out while searching for or skipping chapters or tracks.

AUT/PCM (Auto/PCM):

Normally select this. The system automatically detects the incoming signals.

DOLBY D: Select this if the symptoms above occur when

playing a disc (or software) encoded with

Dolby Digital.

DTS: Select this if the symptoms above occur when

playing a disc (or software) encoded with DTS

Digital Surround.

# **3** Press Cursor ►/◄ to make an adjustment or selection.

Example:



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

## **NOTE**

• When "DOLBY D" or "DTS" is selected, if a signal encoded with another digital format comes in, you cannot listen to the sound. (The DDDIGITAL or DDIGITAL or DDI

# Using the setup menus

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

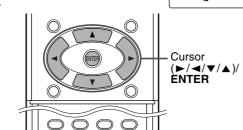
# Basic operation on the setup menus

# **IMPORTANT**

Before using the remote control for the following operation;

1 Set the remote control mode selector to AUDIO.





■ While stopped

# Press SET UP.



**2** Follow the instructions that appears on the TV screen.

# **Menu description**

# 🛦:Language menu (LANGUAGE)

# **■ MENU LANGUAGE**

Some DVDs have their own menus in multiple languages.

• Select the initial language\*.

# **■ AUDIO LANGUAGE**

Some DVDs have multiple audio languages.

• Select the initial audio language\*.

# **■ SUBTITLE**

Some DVDs have multiple subtitle languages.

• Select the initial subtitle language\*.

# **■ ON SCREEN LANGUAGE**

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

## **NOTE**

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

# The language codes list

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



# :Picture menu (PICTURE)

#### **■ MONITOR TYPE**

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

# • 16:9 (Wide television conversion)

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

#### • 4:3 LB (Letter Box conversion)

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

#### • 4:3 PS (Pan Scan conversion)

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







Fx.: 16:9

Fx.: 4:3 I B

Ex.: 4:3 PS

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

## **■ PICTURE SOURCE**

When you set the scan mode to PROGRESSIVE (F pg. 16), you can obtain optimal picture quality by selecting whether the content on the disc is processed by field (video source) or by frame (film source).

Normally set to "AUTO".

#### • AUTO

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

This system recognizes the source type (video or film) of the current disc according to the disc information.

· If the playback picture is unclear or noisy, or the oblique lines of the picture are rough, try to change to other modes.

#### FILM

Suitable for playing back a film source disc.

#### VIDEO

Suitable for playing back a video source disc.

# ■ SCREEN SAVER (© pg. 20)

You can activate or deactivate Screen Saver function.

# **■ FILE TYPE**

When several types of files are recorded on a disc, you can select which files to play. If you have changed FILE TYPE setting, be sure to turn the power off, then turn the power on to enable the new setting.

# AUDIO

Select this to play MP3/WMA files.

# STILL PICTURE

Select this to play JPEG files.

# VIDEO

Select this to play MPEG4 files.

# 🕽: Audio menu (AUDIO)

# **■ D. RANGE COMPRESSION**

(Dynamic range compression)

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

#### AUTO

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

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

# **NOTE**

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



# 📂: Speaker setting menu (SPK. SETTING)

# ■ Level menu (LEVEL)

# **CENTER SPEAKER/SURROUND RIGHT SPEAKER/** SURROUND LEFT SPEAKER/SUBWOOFER

While monitoring the test tone, adjust the center and surround speakers volume as much as that of the front speakers.

## **TEST TONE\***

Outputs the test tone.

#### **RETURN**

#### Returns to the SPK. SETTING menu.

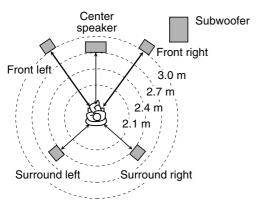
- \* The test tone comes out of all of the activated speakers in the following sequence:
  - $\Rightarrow$  Front left speaker  $\Rightarrow$  Center speaker  $\Rightarrow$  Front right speaker ⇒ Surround right speaker ⇒ Surround left speaker ⇒ (back to the beginning)

# **NOTE**

• Before you turn on the test tone, be sure to select AUTO SURR as the surround mode. (F pg. 22)

# **■** Distance menu (DISTANCE)

## Example:



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

Distance of front speakers: 3.0 m
Distance of center speaker: 2.7 m
Distance of surround speakers: 2.4 m

# FRONT SPEAKER/CENTER SPEAKER/SURROUND SPEAKER

Adjust the distance from the listening position to the speakers. Within the range from 0.3 m to 9.0 m. (by 0.3 m)

#### RETURN

Returns to the SPK. SETTING menu.

# : Other setting menu (OTHERS)

## **■ RESUME**

You can activate or deactivate Resume Playback function. (127 pg. 27)

# **■ ON SCREEN GUIDE**

You can activate or deactivate the on-screen guide icons. (F pg. 18)

# ■ Parental lock menu (PARENTAL LOCK)

You can restrict playback of a DVD VIDEO containing violent scenes that is not suitable for your other family members.

 This setting takes effect only for DVDs containing the Parental Lock level information — Level 1 (most restrictive) to Level 8 (least restrictive).

# **COUNTRY CODE**

Select this when you set the code for your resident. (pg pg. 37)

#### SET LEVEL

Select this when you set the level of restriction.

#### **PASSWORD**

This item is selected automatically when some changes are made on Parental Lock setting. Enter a four-digit number as your password with number buttons 0-9, then press ENTER.

 If you have failed to enter your correct password three times, you cannot select an item other than EXIT. In such a case, press ENTER to exit the mode, then try the setting again.

#### **EXIT**

# Returns to OTHERS menu.

- Be sure to exit the Parental Lock setting mode after entering your password. Otherwise, the changes you made won't be stored.
- If you forget your password, enter "8888" instead of your password.

#### **NOTE**

 When you enter wrong passwords three times, you can only select EXIT.

# **Country/Area codes list for Parental Lock**

		FF	In t	1	<u> </u>	DVI.	D 1
AD	Andorra	ER	Eritrea	LA	Lao People's Democratic	RW	Rwanda
AE	United Arab Emirates	ES	Spain		Republic	SA	Saudi Arabia
AF	Afghanistan	ET	Ethiopia	LB	Lebanon	SB	Solomon Islands
AG	Antigua and Barbuda	FI	Finland	LC	Saint Lucia	SC	Seychelles
AI	Anguilla	FJ	Fiji	LI	Liechtenstein	SD	Sudan
AL	Albania	FK	Falkland Islands (Malvinas)	LK	Sri Lanka	SE	Sweden
AM	Armenia	FM	Micronesia (Fedelated States	LR	Liberia	SG	Singapore
AN	Netherlands Antilles		of)	LS	Lesotho	SH	Saint Helena
AO	Angola	FO	Faroe Islands	LT	Lithuania	SI	Slovenia
AQ	Antarctica	FR	France	LU	Luxembourg	SJ	Svalbard and Jan Mayen
AR	Argentina	FX	France, Metropolitan	LV	Latvia	SK	Slovakia
AS	American Samoa	GA	Gabon	LY	Libyan Arab Jamahiriya	SL	Sierra Leone
AT	Austria	GB	United Kingdom	MA	Morocco	SM	San Marino
AU	Australia	GD	Grenada	MC	Monaco	SN	Senegal
AW	Aruba	GE	Georgia	MD	Moldova, Republic of	SO	Somalia
ΑZ	Azerbaijan	GF	French Guiana	MG	Madagascar	SR	Suriname
BA	Bosnia and Herzegovina	GH	Ghana	MH	Marshall Islands	ST	Sao Tome and Principe
BB	Barbados	GI	Gibraltar	ML	Mali	SV	El Salvador
BD	Bangladesh	GL	Greenland	MM	Myanmar	SY	Syrian Arab Republic
BE	Belgium	GM	Gambia	MN	Mongolia	SZ	Swaziland
BF	Burkina Faso	GN	Guinea	MO	Macau	TC	Turks and Caicos Islands
BG	Bulgaria	GP	Guadeloupe	MP	Northern Mariana Islands	TD	Chad
BH	Bahrain	GQ	Equatorial Guinea	MQ	Martinique	TF	French Southern Territories
BI	Burundi	GR	Greece	MR	Mauritania	TG	Togo
BJ	Benin	GS	South Georgia and the South	MS	Montserrat	TH	Thailand Code Language
BM	Bermuda	US	Sandwich Islands	MT	Malta	TJ	Tajikistan
BN	Brunei Darussalam	GT	Guatemala	MU	Mauritius	TK	Tokelau
ВО	Bolivia	GU	Guam	MV	Maldives	TM	Turkmenistan
BR	Brazil	GW	Guinea-Bissau	MW	Malawi	TN	Tunisia
BS	Bahamas	GY	Guyana	MX	Mexico	TO	Tonga
BT	Bhutan	HK	Hong Kong	MY	Malaysia	TP	East Timor
BV	Bouvet Island	НМ	Heard Island and McDonald	MZ	Mozambique	TR	Turkey
BW	Botswana	пм	Islands	NA	Namibia	TT	Trinidad and Tobago
BY	Belarus	HN	Honduras	NC	New Caledonia	TV	Tuvalu
BZ	Belize	HR	Croatia	NE	Niger	TW	Taiwan
CA	Canada	HT	Haiti	NF	Norfolk Island	TZ	Tanzania, United Republic of
CC	Cocos (Keeling) Islands	HU	Hungary	NG	Nigeria	UA	Ukraine
CF	Central African Republic	ID	Indonesia	NI	Nicaragua	UG	Uganda
CG	Congo	ΙE	Ireland	NL	Netherlands	113.4	United States Minor Outlying
CH	Switzerland	IL	Israel	NO	Norway	UM	Islands
CI	Côte d'Ivoire	IN	India	NP	Nepal	US	United States
CK	Cook Islands	Ю	British Indian Ocean Territory	NR	Nauru	UY	Uruguay
CL	Chile	IQ	Iraq	NU	Niue	UZ	Uzbekistan
CM	Cameroon	IR	Iran (Islamic Republic of)	NZ	New Zealand	VA	Vatican City State (Holy See)
CN	China	IS	Iceland	OM	Oman	VC	Saint Vincent and the
CO	Colombia	IT	Italy	PA	Panama	VC	Grenadines
CR	Costa Rica	JM	Jamaica	PE	Peru	VE	Venezuela
CU	Cuba	JO	Jordan	PF	French Polynesia	VG	Virgin Islands (British)
CV	Cape Verde	JP	Japan	PG	Papua New Guinea	VI	Virgin Islands (U.S.)
CX	Christmas Island	KE	Kenya	PH	Philippines	VN	Vietnam
CY	Cyprus	KG	Kyrgyzstan	PK	Pakistan	VU	Vanuatu
CZ	Czech Republic	KH	Cambodia	PL	Poland	WF	Wallis and Futuna Islands
DE	Germany	KI	Kiribati	PM	Saint Pierre and Miquelon	WS	Samoa
DJ	Djibouti	KM	Comoros	PN	Pitcairn	YE	Yemen
DK	Denmark	KN	Saint Kitts and Nevis	PR	Puerto Rico	YT	Mayotte
		1		PT	Portugal	YU	Yugoslavia
DM	Dominica		Korea, Democratic People's				
DM DO		KP	Korea, Democratic People's Republic of	PW			- C
	Dominican Republic		Republic of	PW	Palau	ZA	South Africa
DO	Dominican Republic Algeria	KR	Republic of Korea, Republic of	PW PY	Palau Paraguay		South Africa Zambia
DO DZ EC	Dominican Republic Algeria Ecuador	KR KW	Republic of  Korea, Republic of  Kuwait	PW PY QA	Palau Paraguay Qatar	ZA ZM ZR	South Africa Zambia Zaire
DO DZ	Dominican Republic Algeria Ecuador Estonia	KR	Republic of Korea, Republic of Kuwait Cayman Islands	PW PY	Palau Paraguay	ZA ZM	South Africa Zambia
DO DZ EC EE	Dominican Republic Algeria Ecuador	KR KW KY	Republic of  Korea, Republic of  Kuwait	PW PY QA RE	Palau Paraguay Qatar Réunion	ZA ZM ZR	South Africa Zambia Zaire

# **Tuner operations**

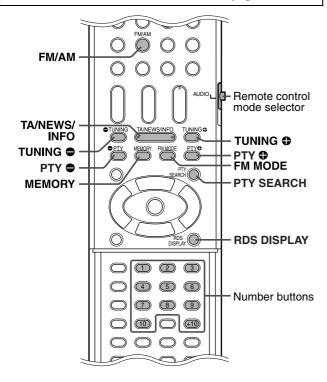
## **IMPORTANT**

Before using the remote control for the following operation;

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



The buttons described below are used on pages 38 to 41.



# **Manual tuning**

# Press FM/AM repeatedly to select the band.

Example:

When the system is tuned in to 810 kHz.



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

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

## **NOTE**

- When a station of sufficient signal strength is tuned in, the TUNED indicator lights on the display window.
- When an FM stereo program is received, the ST indicator lights on the display window.

# **Preset tuning**

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

# **■** To preset the stations

# 1 Tune in the station you want to preset.

• If you want to store the FM reception mode for an FM station, select the reception mode you want. See "Selecting the FM reception mode" (FF pg. 39).

Example:

When the system is tuned in to 103.5 MHz.

103.50M

# $oldsymbol{2}$ Press MEMORY.



While "CH" and "--" are flashing:

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

• For details on using the number buttons, see "How to use the number buttons" (F pg. 20).

Example:

When the preset channel 1 is selected.



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

While the selected number is flashing:

# 4 Press MEMORY.

The selected number stops flashing.

The station is assigned to the selected preset number.

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

# 5 Repeat steps 1 to 4.

- Storing a new station to a used number erases the previously stored one.
- **■** To tune in to a preset station
- Press FM/AM repeatedly to select FM or AM.
- 2 Press number button(s) (1-10, +10) to select a preset number.
  - For details on using the number buttons, see "How to use the number buttons" (F pg. 20).

# **Selecting the FM** reception mode

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

■ While listening to an FM station

## Press FM MODE.

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

#### • AUTO MUTING:

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

#### MONO:

Reception will be improved although you will lose the stereo effect. (The ST indicator goes off.) In this mode, you will hear noise until you are tuned in to a station. (The AUTO MUTING indicator also goes off.)

# Reducing the noise of AM (MW) broadcast

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

■ While listening to an AM (MW) station

## Press FM MODE.

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

 Choose "BEAT CUT 1" or "BEAT CUT 2" according to which gives clearer sound.

# Using the RDS (Radio Data System) when receiving FM stations

RDS allows FM stations to send an additional signal along with their regular program signals. For example, the stations send their station names, as well as information about what type of program they broadcast, such as sports or music, etc.

When tuned in to an FM station which provides the RDS service, the RDS indicator lights up on the display window.



With the system, you can receive the following types of RDS signals:

PS (Program Service): Shows commonly known station names.
PTY (Program Type): Shows types of broadcast programs.
RT (Radio Text): Shows text messages the station sends.

Enhanced Other Network: See page 41.

#### **NOTE**

- RDS is not available for AM (MW) broadcasts.
- RDS may not operate correctly if the station tuned is not transmitting RDS signal properly or if the signal strength is weak.

#### **IMPORTANT**

Before using the remote control for the following operation;

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



# **■** To show the RDS signals information

# Press RDS DISPLAY while listening to an FM station.

Each time you press the button, the indication on the display window changes.

PS (Program Service):

While searching, "PS" appears and then the station names will be displayed. "NO PS" appears if no signal is sent.

PTY (Program Type):

While searching, "PTY" appears and then the type of the broadcast program will be displayed. "NO PTY" appears if no signal is sent. RT (Radio Text):

While searching, "RT" appears and then text messages the station sends will be displayed. "NO RT" appears if no signal is sent. Frequency:

Station frequency (non-RDS service).

# About characters shown on the display window

When PS, PTY, or RT signals appear on the display window, some special characters and marks may not be displayed correctly.

#### NOTE

 If searching finishes at once, "PS", "PTY", and "RT" will not appear on the display window.

# Searching for a program by PTY codes

One of the advantages of the RDS service is that you can locate a particular kind of program from the preset channels (F) pg. 38) by specifying the PTY codes.

# ■ To search for a program using the PTY codes

## **NOTE**

Before you start operation;

- · The PTY Search is only applicable to preset stations.
- To stop searching any time during the process, press PTY SEARCH while searching.
- There is a time limit in doing the following steps. If the setting is canceled before you finish, start from step 1 again.

# Press PTY SEARCH while listening to an FM station.

"PTY SELECT" flashes on the display window.

While "PTY SELECT" is flashing:

# 2 Press PTY ⊕ or PTY ⊕ until the PTY code you want appears on the display window.

• For details, see "Description of the PTY codes".

While the PTY code selected in step 2 is still on the display window:

# 3 Press PTY SEARCH again.

While searching, "SEARCH" and the selected PTY code alternate on the display window.

The system searches 30 preset FM stations, stops when it finds the one you have selected, and tunes in that station.

# To continue searching after the first stop

Press PTY SEARCH again while the indications on the display window are flashing.

If no program is found, "NOT FOUND" appears on the display window.

# **Description of the PTY codes**

News:	News.
Affairs:	Topical program expanding or enlarging upon the news — debate, or analysis.
Info:	Programs the purpose of which is to impart advice in the widest sense.
Sport:	Programs concerned with any aspect of sports.
Educate:	Educational programs.
Drama:	All radio plays and serials.
Culture:	Programs concerning any aspect of national or regional culture, including language, theater, etc.
Science:	Programs about natural sciences and technology.
Varied:	Used for mainly speech-based programs such as quizzes, panel games and personality interviews.
Pop M:	Commercial music of current popular appeal.
Rock M:	Rock music.
Easy M:	Current contemporary music considered to be "easy-listening".
Light M:	Instrumental music, and vocal or choral works.
Classics:	Performances of major orchestral works, symphonies, chamber music, etc.
Other M:	Music not fitting into any of the other categories.
Weather:	Weather reports and forecasts.
Finance:	Stock Market reports, commerce, trading etc.
Children:	Programs targeted at a young audience.
Social:	Programs about sociology, history, geography, psychology and society.
Religion:	Religious programs.
Phone In:	Involving members of the public expressing their views either by phone or at a public forum.
Travel:	Travel information.
Leisure:	Programs about recreational activities.
Jazz:	Jazz music.
Country:	Songs which originate from, or continue the musical tradition of the American Southern States.
Nation M:	Current popular music of the nation or region in that country's language.
Oldies:	Music from the so-called "golden age" of popular music.
Folk M:	Music which has its roots in the musical culture of a particular nation.
Document:	Programs concerning factual matters, presented in an investigative style.
TEST:	Broadcasts for testing emergency broadcast equipment or unit.
Alarm !:	Emergency announcement.
None:	No program type, undefined program, or difficult to categorize into particular types.

# NOTE

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

# Switching to broadcast program of your choice temporarily

Another convenient RDS service is called "Enhanced Other Network".

This allows the system to switch temporarily to a broadcast program of your choice (TA, NEWS, and/or INFO) from a different station except in the following cases;

- When you are listening to non-RDS stations (all AM MW stations, some FM stations and other sources).
- When the system is in standby mode.

#### **NOTE**

Before you start operations;

 The Enhanced Other Network function is only applicable to preset stations.

#### **IMPORTANT**

Before using the remote control for the following operation;

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



# Press TA/NEWS/INFO repeatedly until the program type indicator (TA/NEWS/INFO) you want appears on the display window.

Each time you press the button, the indicator on the display window changes.



The program type indicator

TA: Traffic Announcement in your area.

NEWS: News.

INFO: Program the purpose of which is to impart advice in the

widest sense.

# To stop listening to the program selected by Enhanced Other Network

Press TA/NEWS/INFO repeatedly again so that the program type indicator (TA/NEWS/INFO) goes off from the display window. The system exits from Enhanced Other Network standby mode and goes back to the previously selected station.

# When an emergency broadcast (Alarm ! signal) is sent from an FM station

The system automatically tunes in to the station and "Alarm!" appears on the display window while the system receiving the emergency broadcast.

Note that an emergency broadcast cannot be received in the following cases;

- When you are listening to non-RDS stations (all AM MW stations, some FM stations and other sources).
- When the system is in standby mode.

# The TEST signal is used for equipment test — whether it can receive the Alarm signal correctly

The TEST signal makes the system work in the same way as the Alarm signal does. If the TEST signal is received, the system automatically switches to the station broadcasting the TEST signal. While receiving the TEST signal, "TEST" appears on the display window.

# How the Enhanced Other Network function actually works

#### Case 1

# If there is no station broadcasting the program you have selected

The system continues tuning in to the current station.

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When a station starts broadcasting the program you have selected, the system automatically switches to the station. The indicator of received PTY code starts flashing.

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

#### Case 2

# If the FM station you are listening to is broadcasting the program you have selected

The system continues to receive the station but the indicator of received PTY code starts flashing.

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When the program is over, the indicator of received PTY code stops flashing and remains lit, but the Enhanced Other Network function still remains activated.

#### **NOTE**

- In Enhanced Other Network standby mode, if you change the source to play, Enhanced Other Network standby mode is canceled temporarily.
  - If you change the source to FM again, the system returns to Enhanced Other Network standby mode.
- Enhanced Other Network data sent from some stations may not be compatible with this system.
- Enhanced Other Network does not function for some FM stations with RDS service.
- While listening to a program tuned in by the Enhanced Other Network function, the station does not change even if another network station starts broadcasting a program of the same Enhanced Other Network
- While listening to a program tuned in by the Enhanced Other Network function, you can only use TA/NEWS/INFO and RDS DISPLAY as the tuner operation buttons.

# **Maintenance**

# **■** Handling Discs

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



#### To clean the disc

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

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



# Cleaning the system

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

# **Troubleshooting**

PROBLEM	POSSIBLE CAUSE	SOLUTION			
Power does not come on.	The power cord and/or system cord is not connected.	Connect the power cord and system cord correctly. (F pg. 11)			
The remote control does	The batteries are exhausted.	Replace the batteries. (F pg. 7)			
not work.	Sunlight is falling directly on the remote sensor.	Hide the remote sensor from direct sunlight.			
No sound.	The system cord and/or speaker cord is not connected.	Check the connection. (F pg. 11)			
	The audio cord is not connected to AUX IN and/or DIGITAL IN correctly.	Connect the cord correctly. (F pg. 11)			
	An incorrect source has been selected.	Select the correct source. (F pg. 15)			
	The decode mode is not set correctly.	Select the proper decode mode. (Fg pg. 33)			
No picture is displayed	The video cord is not connected correctly.	Connect the cord correctly. (F pg. 10)			
on the TV screen.	The disc is not playable.	Use a playable disc. ( pg. 3)			
No picture is displayed on the TV screen, the picture is blurred, or the picture is divided into two parts.	The scan mode is set to "PROGRESSIVE" though the center unit is connected to the TV which does not support the progressive video input such as a conventional TV.	Change the scan mode to "RGB" or "Y/C". (IF pg. 16)			
Video and audio are	The disc is scratched or dirty.	Replace or clean the disc.			
distorted.	A VCR is connected between the center unit and the TV.	Connect the center unit and TV directly. (F pg. 10)			
The picture does not fit the TV screen.	The monitor type is not set correctly.	Set "MONITOR TYPE" properly. ( pg. 35)			
Hard to listen to broadcast because of noise.	Antennas are disconnected.	Reconnect the antennas correctly and securely. (LF pg. 8)			

# **Specifications**

# **■** Center unit (XV-THM303)

#### **Audio section**

Total Harmonic Distortion 0.02 %

NOTE: This value is measured at System cord CONNECTOR for

reference.

Digital input\*1:

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

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

Video section

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

(Composite signal when "RGB" is selected)

Video output level

 $\begin{array}{lll} & Composite: & 1.0 \ V(p-p)/75 \ \Omega \\ & S\text{-video-Y:} & 1.0 \ V(p-p)/75 \ \Omega \\ & S\text{-video-C:} & 0.3 \ V(p-p)/75 \ \Omega \\ & Component-Y: & 1.0 \ V(p-p)/75 \ \Omega \\ & Component-P_B/P_R: & 0.7 \ V(p-p)/75 \ \Omega \\ & RGB: & 0.7 \ V(p-p)/75 \ \Omega \end{array}$ 

**Tuner section** 

**Tuning Range** 

FM: 87.50 MHz to 108.00 MHz AM (MW): 522 kHz to 1 629 kHz

General

Power Requirements: AC 230 V  $\sim$ , 50 Hz Power Consumption: 18 W (at operation)

2.0 W (in standby mode)

Dimensions (W  $\times$  H  $\times$  D):

 $400 \text{ mm} \times 85 \text{ mm} \times 380 \text{ mm}$ 

Mass: 4.3 kg

# ■ Subwoofer (SP-PWM303)

**Amplifier section** 

Front/Center/Surround: 80 W per channel, RMS at  $6 \Omega$ 

(Center/Surround)/ 120 W per channel,

RMS at  $4 \Omega$  (Front)

at 1 kHz, with 10 % total harmonic

distortion.

Subwoofer: 120 W, RMS at 4  $\Omega$  at 100 Hz, with

 $10\ \%$  total harmonic distortion.

Speaker section

Speaker unit: 16 cm Bass-reflex, Magnetically

Shielded

Frequency Range: 30 Hz to 200 Hz

General

Power Requirements: AC 230 V  $\sim$ , 50 Hz Power Consumption: 110 W (at operation)

0 W (in standby mode)

Dimensions (W  $\times$  H  $\times$  D):

168.5 mm × 412 mm × 444 mm

Mass: 12.0 kg

# **■** Satellite Speakers

# Front speakers (SP-THM303F)

Speakers: 8.0 cm

Bass-reflex, Magnetically Shielded

Power Handling Capacity: 120 WImpedance:  $4 \Omega$ 

Frequency Range: 90 Hz to 20 kHz

Dimensions (W  $\times$  H  $\times$  D):

 $106 \text{ mm} \times 119.5 \text{ mm} \times 102 \text{ mm}$ 

Mass: 0.69 kg

# Surround speakers (SP-THM303S)

Speakers: 8.0 cm

Bass-reflex, Magnetically Shielded

Power Handling Capacity: 80 WImpedance:  $6 \Omega$ 

Frequency Range: 80 Hz to 20 kHz

Dimensions (W  $\times$  H  $\times$  D):

111.5 mm × 139 mm × 106.5 mm

Mass: 0.63 kg

## Center speaker (SP-THM303C)

Speakers: 8.0 cm

Bass-reflex, Magnetically Shielded

Power Handling Capacity: 80 W Impedance:  $6 \Omega$ 

Frequency Range: 90 Hz to 20 kHz

Dimensions (W  $\times$  H  $\times$  D):

106 mm × 119.5 mm × 102 mm

Mass: 0.69 kg

Designs & specifications are subject to change without notice.



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