# **DVD Home Theater Sound System**

**Operating Instructions** 

Model No. SC-HT900/SC-HT700



The illustration shows SC-HT900 for the United Kingdom and Russia.







# **Panasonic**®

# Region number supported by this player

Region numbers are allocated to DVD players and software according to where they are sold.

## For the United Kingdom

- •The region number of this player is "2".
- •The player will play DVD-Video marked with labels containing "2" or "ALL".

### Example:







### For Australia and N.Z.

- •The region number of this player is "4".
- •The player will play DVD-Video marked with labels containing "4" or "ALL".

### Example:







### For Russia

- •The region number of this player is "5".
- •The player will play DVD-Video marked with labels containing "5" or "ALL".

### Example:







Before connecting, operating or adjusting this product, please read these instructions completely. Please keep this manual for future reference.

### Note

"EB" on the packaging indicates the United Kingdom.

# Dear customer

Thank you for purchasing this product.

For optimum performance and safety, please read these instructions carefully.

HT900: indicates features applicable to SC-HT900 only.

HT700 : SC-HT700 only.

- These operating instructions are applicable to models SC-HT900 and SC-HT700 for a variety regions.
- Unless otherwise indicated, illustrations in these operating instructions are of SC-HT900 for the United Kingdom and Russia.
- Operations in these instructions are described mainly with the remote control, but you can do the operations on the main unit if the controls are the same.

System	SC-HT900	SC-HT700
Main unit	SA-HT900	SA-HT700
Front speakers	SB-FS900	SB-FS700
Center speaker	SB-PC701	SB-PC700
Surround speakers	SB-FS900	SB-FS801A
Active subwoofer	SB-WA340	SB-WA330

# **CAUTION!**

THIS PRODUCT UTILIZES A LASER.

USE OF CONTROLS OR ADJUSTMENTS OR PERFORMANCE OF PROCEDURES OTHER THAN THOSE SPECIFIED HEREIN MAY RESULT IN HAZARDOUS RADIATION EXPOSURE. DO NOT OPEN COVERS AND DO NOT REPAIR YOURSELF. REFER SERVICING TO QUALIFIED PERSONNEL.

# **WARNING:**

TO REDUCE THE RISK OF FIRE, ELECTRIC SHOCK OR PRODUCT DAMAGE, DO NOT EXPOSE THIS APPARATUS TO RAIN, MOISTURE, DRIPPING OR SPLASHING AND THAT NO OBJECTS FILLED WITH LIQUIDS, SUCH AS VASES, SHALL BE PLACED ON THE APPARATUS.

### **CAUTION!**

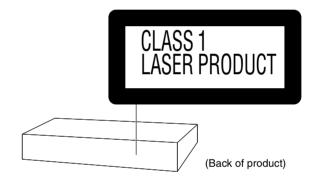
- DO NOT INSTALL OR PLACE THIS UNIT IN A BOOKCASE, BUILT-IN CABINET OR IN ANOTHER CONFINED SPACE.
   ENSURE THE UNIT IS WELL VENTILATED. TO PREVENT RISK OF ELECTRIC SHOCK OR FIRE HAZARD DUE TO OVERHEATING, ENSURE THAT CURTAINS AND ANY OTHER MATERIALS DO NOT OBSTRUCT THE VENTILATION VENTS.
- DO NOT OBSTRUCT THE UNIT'S VENTILATION OPENINGS WITH NEWSPAPERS, TABLECLOTHS, CURTAINS, AND SIMILAR ITEMS.
- DO NOT PLACE SOURCES OF NAKED FLAMES, SUCH AS LIGHTED CANDLES, ON THE UNIT.
- DISPOSE OF BATTERIES IN AN ENVIRONMENTALLY FRIENDLY MANNER.

THIS UNIT IS INTENDED FOR USE IN MODERATE CLIMATES.

This product may receive radio interference caused by mobile telephones during use. If such interference is apparent, please increase separation between the product and the mobile telephone.

CAUTION	LASER RADIATION WHEN OPEN.     DO NOT STARE INTO BEAM. FDA 21 CFR / Class II
CAUTION	<ul> <li>VISIBLE AND INVISIBLE LASER RADIATION WHEN OPEN.</li> <li>AVOID EXPOSURE TO BEAM. IEC60825-1 / Class 3b</li> </ul>
VARNING	<ul> <li>SYNLIG OCH OSYNLIG LASERSTRÄLNING NÄR DENNA DEL ÄR ÖPPNAD. BETRAKTA EJ STRÅLEN.</li> </ul>
ADVARSEL	<ul> <li>SYNLIG OG USYNLIG LASERSTRÄLING VED ÅBNING. UNDGÅ UDSÆTTELSE FOR STRÄLING.</li> </ul>
ADVARSEL	<ul> <li>SYNLIG OG USYNLIG LASERSTRÄLING NÅR DEKSEL ÅPNES.</li> <li>UNNGÅ EKSPONERING FOR STRÅLEN.</li> </ul>
VARO!	AVATTAESSA OLET ALTTIINA NÄKYVÄÄ JA NÄKYMÄTÖN LASERSÄTEILYLLE. ÄLÄ KATSO SÄTEESEEN.
VORSICHT	<ul> <li>SICHTBARE UND UNSICHTBARE LASERSTRAHLUNG, WENN ABDECKUNG GEÖFFNET. NICHT DEM STRAHL AUSSETZEN.</li> </ul>
ATTENTION	RAYONNEMENT LASER VISIBLE ET INVISIBLE EN CAS D'OUVERTURE. EXPOSITION DANGEREUSE AU FAISCEAU.
注意	<ul> <li>打开时有可见及不可见激光辐射、避免激光束照射。</li> </ul>
注意	<ul><li>ここを開くと可視及び不可視レーザー光が出ます。 ビームを見たり、触れたりしないで下さい。 RQLXS0064</li></ul>

(Inside of product)



# **Accessories**



Please check and identify the supplied accessories. Use numbers indicated in parentheses when asking for replacement parts.

1 Remote control HT900 (EUR7623X80) HT700

(EUR7623X90)

2 Batteries for remote control



To the United Kingdom (RJA0053-3X)



For Australia and N.Z. (RJA0035-2X)



For Russia (RJA0019-2X)



1 System cable (K1HA25HA0001)



For the United Kingdom only
1 Antenna plug adaptor
(K1YZ02000013)



☐ 1 Video cable (RJL1P016B15A)



1 AM loop antenna (N1DADYY00002)



1 FM indoor antenna For the United Kingdom and Russia (RSA0007-J)



For Australia and N.Z. (RSA0006-J)



☐ 5 Speaker cables (RFA2163-J) 3×4-m cables



1 Sheet of speaker-cable stickers



NT900
8 Silver screws
(XSN5+16FN)



HT900 ☐ 4 Black screws (XTB3+10JFZ)



HT900 4 Clips (QWBG002AA)



### Note

The included AC mains lead is for use with this unit only. Do not use it with other equipment.

# For the United Kingdom and Republic of Ireland



 $\underline{\text{www.panasonic.co.uk}} \ (\text{for UK customers only})$ 

- Order accessory and consumable items for your product with ease and confidence by telephoning our Customer Care Centre Mon-Friday 9:00am-5:30pm. (Excluding public holidays.)
- Or go on line through our Internet Accessory ordering application.
- Most major credit and debit cards accepted.
- All enquiries transactions and distribution facilities are provided directly by Panasonic UK Ltd.
- It couldn't be simpler!

Customer Care Centre

For UK customers: 08705 357357 For Republic of Ireland customers: 01 289 8333

Technical Support

For UK customers: 0870 1 505610

This Technical Support Hot Line number is for Panasonic PC software related products only.

For Republic of Ireland, please use the Customer Care Centre number listed above for all enquiries.

For all other product related enquiries, please use the Customer Care Centre numbers listed above.

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RQT6756

# (For United Kingdom)

("EB" area code model only)

For your safety, please read the following text carefully.

This appliance is supplied with a moulded three pin mains plug for your safety and convenience. A 5-ampere fuse is fitted in this plug. Should the fuse need to be replaced please ensure that the replacement fuse has a rating of 5-ampere and that it is approved by ASTA or BSI to BS1362. Check for the ASTA mark or the BSI mark on the body of the fuse.

If the plug contains a removable fuse cover you must ensure that it is refitted when the fuse is replaced. If you lose the fuse cover the plug must not be used until a replacement cover is obtained.

A replacement fuse cover can be purchased from your local dealer.

## **CAUTION!**

IF THE FITTED MOULDED PLUG IS UNSUITABLE FOR THE SOCKET OUTLET IN YOUR HOME THEN THE FUSE SHOULD BE REMOVED AND THE PLUG CUT OFF AND DISPOSED OF SAFELY.

THERE IS A DANGER OF SEVERE ELECTRICAL SHOCK IF THE CUT OFF PLUG IS INSERTED INTO ANY 13-AMPERE SOCKET.

If a new plug is to be fitted please observe the wiring code as stated below.

If in any doubt please consult a qualified electrician.

# **IMPORTANT**

The wires in this mains lead 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 or Blue.

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

WARNING: DO NOT CONNECT EITHER WIRE TO THE EARTH TERMINAL WHICH IS MARKED WITH THE LETTER E, BY THE EARTH SYMBOL \(\preceq\) OR COLOURED GREEN OR GREEN/YELLOW.

THIS PLUG IS NOT WATERPROOF—KEEP DRY.

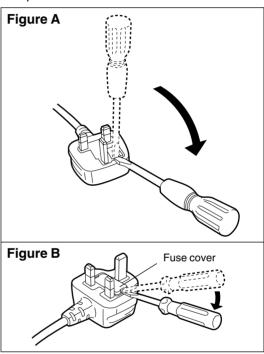
### Before use

Remove the connector cover.

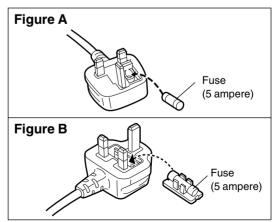
# How to replace the fuse

The location of the fuse differ according to the type of AC mains plug (figures A and B). Confirm the AC mains plug fitted and follow the instructions below. Illustrations may differ from actual AC mains plug.

1. Open the fuse cover with a screwdriver.



2. Replace the fuse and close or attach the fuse cover.



# **Disc information**

## ■ Discs that can be played

Disc type	Logo	Indication used in instructions
DVD-RAM	RAM RAM4.7	RAM
DVD-Audio	AUDIO	DVD-A
DVD-Video	VIDEO VIDEO	DVD-V
DVD-R	R R 4.7	
Video CD	DIGITAL VIDEO  SUPER VIDEO	Including SVCD (Confirming to IEC62107)
CD	DIGITAL AUDIO  TEXT	CD Including CD text
CD-R/RW		WMA MP3 JPEG

- Use discs with the above logos and that conform to specifications.
   The unit cannot play other discs correctly.
- Do not use irregularly shaped discs (e.g. heart-shaped), as these can damage the unit.

# ■ Discs that cannot be played

DVD-ROM, CD-ROM, CDV, CD-G, +RW, DVD-RW, CVD, SACD, Divx Video Discs, Photo CD and "Chaoji VCD" available on the market including CVD, DVCD and SVCD that do not conform to IEC62107.

### **■** Disc structure

Disc structure and the labels given to the items on discs depend on the disc type.

Track: the smallest division on DVD-Audio, CDs and Video CDs,

or a single WMA/MP3 file.

Chapter: the smallest division on DVD-Video.

Group: collections of tracks on DVD-Audio and equivalent to

folders or albums on data discs.

**Title:** the largest division on DVD-Video, usually an entire movie.

Program: the division on DVD-RAM equivalent to a single

recording.

Picture: a single JPEG file.

Play list: the largest grouping on a HighMAT disc, or a group of

scenes on DVD-RAM.

Scene: DVD-RAM program sections specified and grouped into

play lists on a DVD video recorder.

Content: covers tracks and pictures on HighMAT discs.

## Playing DVDs and Video CDs

The producer of these discs can control how they are played so you may not always be able to control play as described in these operating instructions (for example if the play time is not displayed or if a Video CD has menus). Read the disc's instructions carefully.

### **■ DVD-RAM discs**

DVD-RAM discs must meet the following conditions for this unit to be able to play them.

Туре	Non-cartridge discs     Discs that can be removed from their cartridges (TYPE 2 and 4)
Capacity	●12 cm 9.4 GB (double-sided) and 4.7 GB (single-sided) ●8 cm 2.8 GB (double-sided)
Recording format	Discs recorded with DVD video recorders, DVD video cameras, personal computers, etc., using Version 1.1 of the Video Recording Format (a unified video recording standard).

- Remove TYPE 2 and 4 discs from their cartridges before use, then return them when you are finished. Read the instructions for the disc carefully.
- Do not allow the disc to become dirty or scratched. Store discs in their cartridges and ensure the disc label and cartridge label face the same way.
- Some parts of the disc, for example where one program ends and another begins, may not play smoothly.

#### **■ DVD-R discs**

Panasonic DVD-R recorded and finalized on a Panasonic DVD video recorder are played as DVD-Video on this unit.

### ■ CD-R and CD-RW discs

This unit can play CD-R/RW (audio recording disc) recorded with CD-DA, video CD, SVCD (conforming to IEC62107), WMA, MP3 or JPEG. Close the sessions or finalize the disc after recording.

### ■ HighMAT discs

This unit is compatible with HighMAT discs containing WMA, MP3, and/or JPEG files.

### Note

It may not be possible to play CD-R, CD-RW, DVD-R and DVD-RAM in all cases due to the type of disc or condition of the recording.

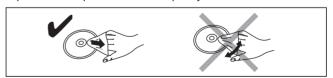
## ■ Video systems

This unit can play both the PAL and NTSC for video systems. To view PAL or NTSC, however, your television must match the system used on the disc.

PAL discs cannot be correctly viewed on an NTSC television. NTSC can be correctly viewed on a PAL television by converting the video signal to PAL 60 (➡ page 33, Video—NTSC Disc Output).

### ■ To clean discs

**DVD-Audio, DVD-Video, Video CD, CD**Wipe with a damp cloth and then wipe dry.



### DVD-RAM, DVD-R

- Clean with an optional DVD-RAM/PD disc cleaner (LF-K200DCA1, where available).
- •Never use cloths or cleaners for CDs etc.

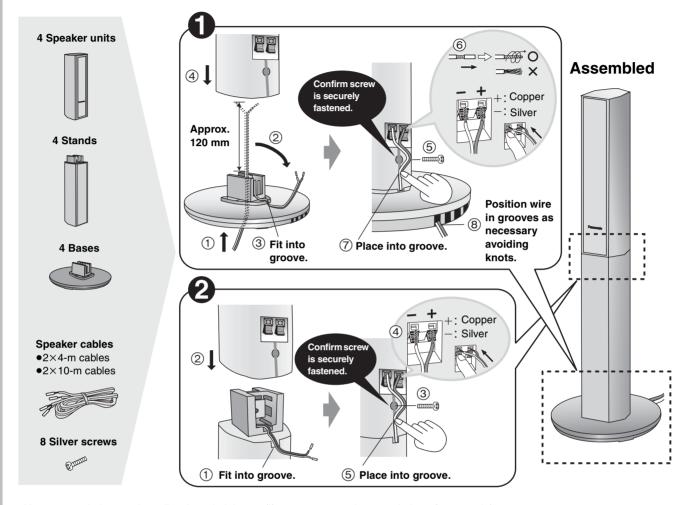
## ■ Handling precautions

- Do not write on the label side with a ball-point pen or other writing instrument.
- Do not use record cleaning sprays, benzine, thinner, static electricity prevention liquids or any other solvent.
- Do not attach labels or stickers to discs. (Do not use discs with exposed adhesive from tape or left over peeled-off stickers.)
- •Do not use scratch-proof protectors or covers.
- Do not use discs printed with label printers available on the market.

# Simple setup



# Assembly and connection of front and surround speakers



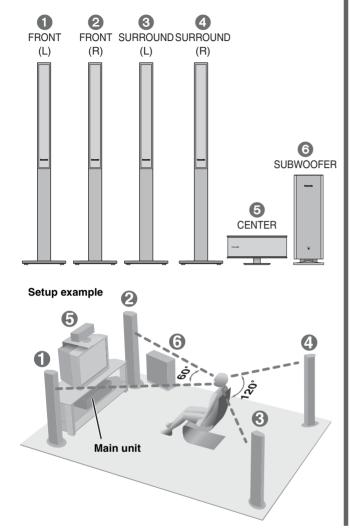
•You can attach the speakers directly to their bases (if you want to put them on shelves, for example).

### Note

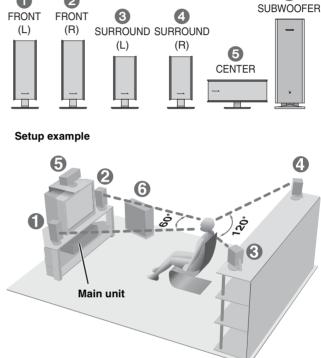
- Never short-circuit positive (+) and negative (−) speaker wires.
- •Be sure to connect only positive (copper) wires to positive (+) terminals and negative (silver) wires to negative (-) terminals. Incorrect connection can damage the speakers.

# Locating

•The front and surround speakers are the same. Use those you have connected the short cords to as front speakers and those you have connected the long cords to as surround speakers.







• Place the front, center, and surround speakers at approximately the same distance from the seating position. The angles in the diagram are approximate.

0

2

### Use only supplied speakers

Using other speakers can damage the unit and sound quality will be negatively affected.

• Set the speakers up on an even surface to prevent them from falling. Take proper precautions to prevent the speakers from falling if you cannot set them up on an even surface.

# Positioning for best effect

How you set up your speakers can affect the bass and the sound field. Note the following points.

- •Place speakers on flat secure bases.
- Placing speakers too close to floors, walls, and corners can result in excessive bass. Cover walls and windows with thick curtain.

Keep your speakers at least 10 mm away from the system for proper ventilation.

### Center speaker

- You can also put this speaker directly under the television.
- Vibration caused by the center speaker can disrupt the picture if it is placed directly on the television. Put the center speaker on a rack or shelf.

### Subwoofer

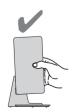
Place to the right of the television, on the floor or a sturdy shelf so that it won't cause vibration.

Leave 10 cm on the right for the woofer to be effective. Leave 10 cm at the rear for ventilation.

### Caution

Hold the speakers by the sides. Applying pressure to the front net can damage the speaker.

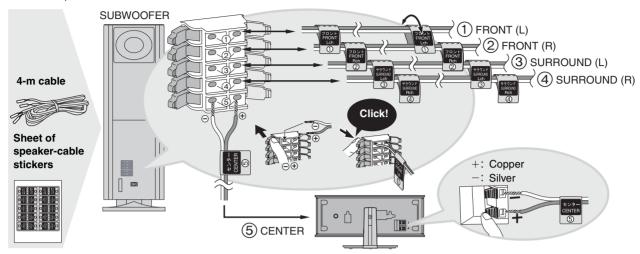






# Connecting speakers with the subwoofer

Attach the speaker-cable stickers to make connection easier.



HT900 HT700

keep them out of the way.

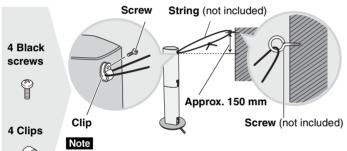
Stand

Incorrect connection can damage the speakers.

Keeping the cables out of the way Pass the cables through the holes in the stand to

Pass the cable

# ■ Preventing the speakers from falling over



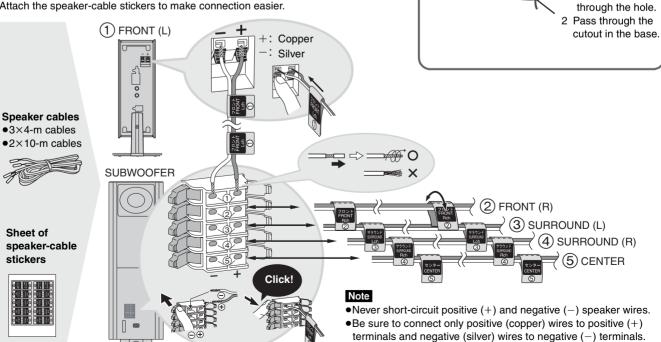
Consult a qualified building contractor when attaching the speakers to wall. Improper attachment may result in damage to the wall and speakers.



HT700

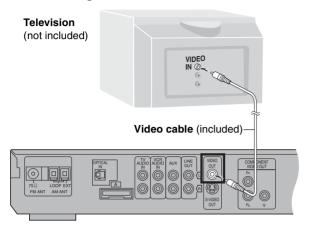
# Connecting speakers with the subwoofer

Attach the speaker-cable stickers to make connection easier.



# STEP 3 Television

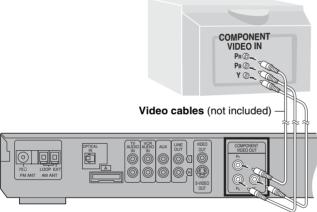
## ■ Connecting a television with a VIDEO IN terminal



### Connect directly to your television.

Do not connect the unit through a video cassette recorder, because the picture may not be played correctly due to the copy guard.

# ■ Connecting a television with COMPONENT VIDEO IN terminals



### **COMPONENT VIDEO OUT terminals**

These terminals can be used for either interlace or progressive output and provide a purer picture than the S-VIDEO OUT terminal. Connection using these terminals outputs the color difference signals ( $P_B/P_R$ ) and luminance signal (Y) separately in order to achieve high fidelity in reproducing colors.

•The description of the component video input terminals depends on the television or monitor (e.g. Y/P<sub>B</sub>/P<sub>R</sub>, Y/B-Y/R-Y, Y/C<sub>B</sub>/C<sub>R</sub>). Connect to terminals of the same color.

### For the United Kingdom and Russia

 When making this connection, set "Video Out (AV/Component)" to "Video/Y PB PR" or "S-Video/Y PB PR" from QUICK SETUP (→ page 12).

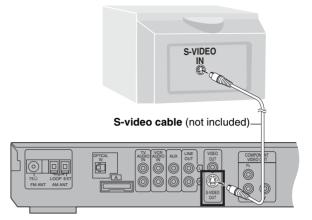
### To enjoy progressive video

- Connect to the component video (480P) input terminals on a television compatible with this unit's copy guard system.
   (Video will not be displayed correctly if connected to an incompatible television.)
- When playing NTSC discs, change video output mode to "480P" (→ page 26).
- Press [PROGRESSIVE] on the main unit so "PROG." appears on the display (→ page 14).
- All televisions manufactured by Panasonic and that have 480P input connectors are compatible. Consult the manufacturer if you have another brand of television.





## ■ Connecting a television with an S-VIDEO IN terminal

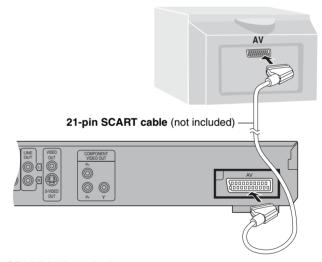


### **S-VIDEO OUT terminal**

The S video terminal achieves a more vivid picture than the VIDEO OUT terminal by separating the chrominance (C) and luminance (Y) signals. (Actual results depend on the television.)

### For the United Kingdom and Russia

# ■ Connecting a television with SCART terminal



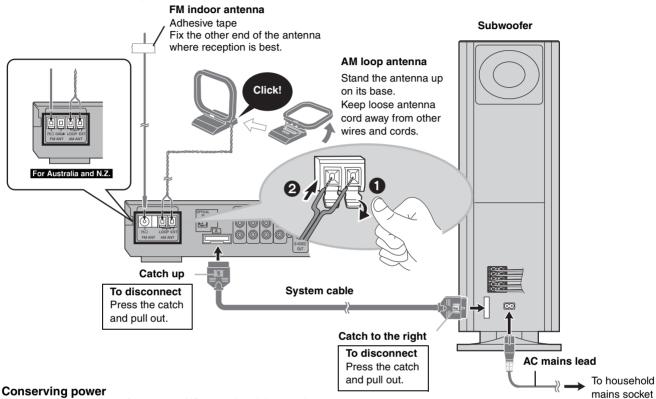
### SCART (AV) terminal

To improve picture quality, you can change the video signal output from the SCART (AV) terminal from "Video" to either "S-Video" or "RGB" to suit the type of television you are using. Set "Video Out (AV/Component)" to "S-Video/Y PB PR" or "RGB/No Output" from QUICK SETUP ( page 12).

# Connecting the subwoofer, antennas, and AC mains lead



Connect the AC mains lead after all other connections are complete.



The unit consumes power (approx. 0.7 W) even when it is turned off with [0]. To save power when the unit is not to be used for a long time, unplug it from the household mains socket.

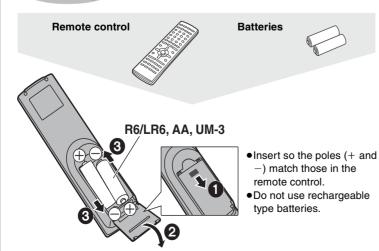
Remember to reset the radio stations and any other memory items before using the unit again.

Information you enter into the unit's memory remains intact for up to 2 weeks after the AC mains lead is disconnected.

## For the United Kingdom only

BE SURE TO READ THE CAUTION FOR THE **AC MAINS LEAD ON PAGE 4 BEFORE** CONNECTION.

# The remote control



- •mix old and new batteries.
- •use different types at the same time.
- •heat or expose to flame.
- •take apart or short circuit.
- attempt to recharge alkaline or manganese batteries.
- •use batteries if the covering has been peeled off.

Mishandling of batteries can cause electrolyte leakage which can damage items the fluid contacts and may cause a fire.

Remove if the remote control is not going to be used for a long period of time. Store in a cool, dark place.

### ■ Use

Aim at the sensor, avoiding obstacles, at a maximum range of 7 m directly in front of the unit.

# Other speaker setup options

# Attaching to a wall

HT900 (Center speaker only) / HT700

### Note

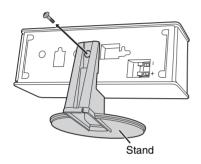
The wall or pillar on which the speakers are to be attached should be capable of supporting 10 kg per screw.

# 1 Remove the stand.

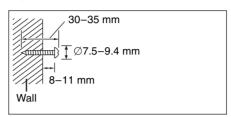
### **BEFORE REMOVING THE STAND**

- Take the speaker cable out of the stand's hole if it is threaded through.
- •Lay the speaker on a soft cloth.

Unscrew the screw with a Phillips-head screwdriver.

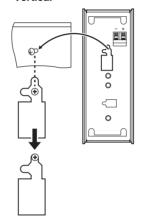


# 2 Screw a screw (not included) into the wall.

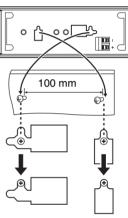


# 3 Fit the speaker securely onto the screw with the hole or holes.





Horizontal



# Fitting speaker stands (optional)

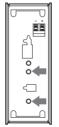
HT900 (Center speaker only) / HT700

### Preparation

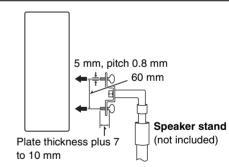
Remove the stand (⇒ step 1 above).

Ensure the stands meet these conditions before purchasing them.

- Observe the diameter and length of the screws and the distance between screws as shown in the diagram.
- The stands must be able to support over 10 kg.
- The stands must be stable even if the speakers are in a high position.



Attach the stands with these holes.



### Notes on speaker use

- You can damage your speakers and shorten their useful life if you play sound at high levels over extended periods.
- Reduce the volume in the following cases to avoid damage.
- -When playing distorted sound.
- -When the speakers are receiving howling from a record player, noise from FM broadcasts, or continuous signals from an oscillator, test disc, or electronic instrument.
- -When adjusting the sound quality.
- -When turning the unit on or off.

### If irregular coloring occurs on your television

These speakers are designed to be used close to a television, but the picture may be affected with some televisions and setup combinations.

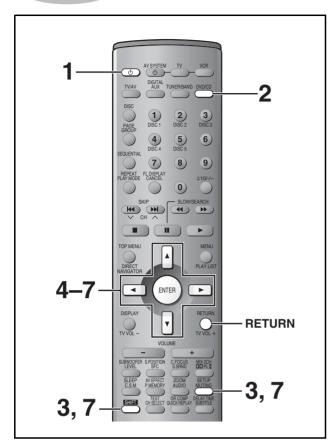
### If this occurs, turn the television off for about 30 minutes.

The television's demagnetizing function should correct the problem. If it persists, move the speakers further away from the television.

### Caution

- Use the speakers only with the recommended system. Failure to do so may lead to damage to the amplifier and/or the speakers, and may result in the risk of fire. Consult a qualified service person if damage has occurred or if you experience a sudden change in performance.
- Do not attempt to attach these speakers to walls using methods other than those described in this manual.

# STEP 6 QUICK SETUP

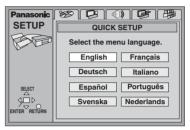


The **QUICK SETUP screen** appears when you press [SHIFT]+ [SETUP] the first time after purchase and assists you to make necessary settings. You can access this screen again later if you need to (➡ page 33, Others—QUICK SETUP).

#### Preparation

Turn on the television and select the appropriate video input on the television to suit the connections for the unit.

- **1** Press [也] to turn on the unit.
- 2 Press [DVD/CD] to select "DVD/CD" as the source.
- 3 Press [SHIFT]+[SETUP] to show the QUICK SETUP screen.



- 4 Press [▲, ▼, ◄, ▶] to select the menu language and press [ENTER].
- 5 Press [▲, ▼] to select "Yes" to continue and press [ENTER].
- 6 Press [▲, ▼, ◄, ▶] to select the item and press [ENTER].
  - Audio Language (⇒ page 33)
  - •Subtitle Language (→ page 33)
  - ●TV Type (⇒ below)
  - TV Aspect (⇒ below)

# For the United Kingdom and Russia

- Video Out (AV/Component) (→ page 33)
- 7 Press [ENTER] and then [SHIFT]+ [SETUP] to end the settings.

# To return to the previous screen Press [RETURN].

### ■ TV Type

Select to suit the type of television.

- •Standard (Direct View TV) (factory preset)
- CRT Projector
- ◆LCD TV/Projector
- Projection TV
- •Plasma TV

### **■ TV Aspect**

Select "4:3" (regular) or "16:9" (widescreen) to suit your television.

If you have a regular 4:3 television, you can also select how video on some discs is shown (➡ page 33, Video—TV Aspect).

•4:3 Pan&Scan (factory preset)

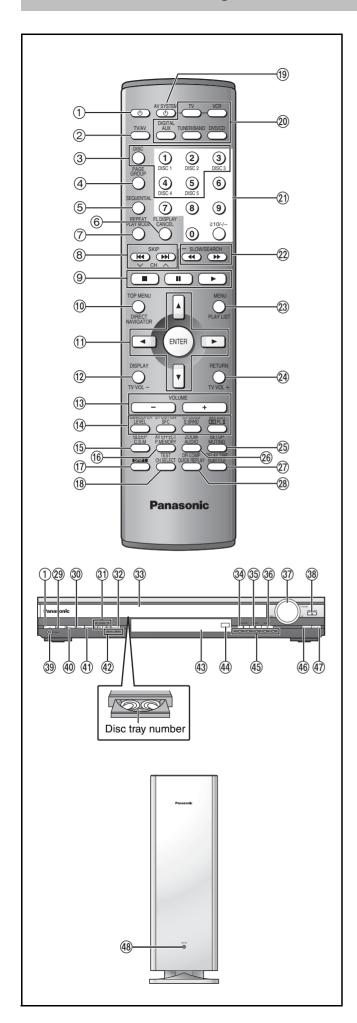
Widescreen software is expanded to fill the screen of a 4:3 aspect television (unless prohibited by the producer of the disc).

•4:3 Letterbox

Widescreen software is shown in the letterbox style on a 4:3 aspect television.





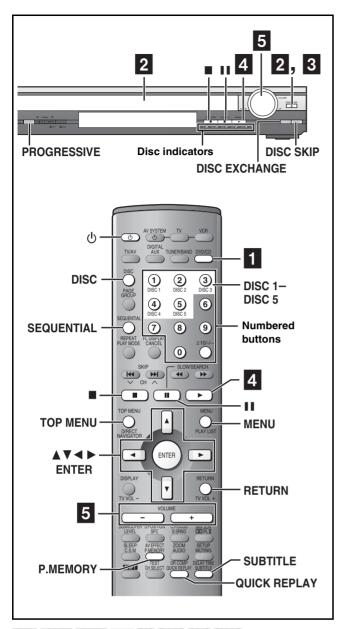


Remote control
① Standby/on switch [也]
② TV/AV button [TV/AV]
4 Group, Page button [GROUP, PAGE]
<ul> <li>Sequential button [SEQUENTIAL]</li></ul>
Play mode, Repeat button [PLAY MODE, REPEAT] 17, 19
(a) Skip, Preset channel, TV channel button [   ◀◀ ▶▶ , SKIP, ∨ CH ∧]
Basic operation buttons
(i) Top menu, Direct navigator button [TOP MENU, DIRECT NAVIGATOR]
(1) Cursor buttons [▲, ▼, ◄, ▶], Enter button [ENTER]12
(2) Display, TV volume down button [DISPLAY, TV VOL-] 24, 36 (3) Volume buttons [-, +, VOLUME]
(4) Sound field, sound quality buttons28–3
HT900 Dolby Pro Logic II button [DIPLII]
HT700 Dolby Pro Logic button [□□PL] (5) Custom sound memory, Sleep button [C.S.M, SLEEP] 30, 32
(6) HT900 Position memory, AV effect button
[P.MEMORY, AV EFFECT]
(i) Shift button [SHIFT]
To use functions labeled in orange: While pressing [SHIFT], press the corresponding button.
(8) Channel select, Test button [CH SELECT, TEST] 28, 29
② Source select buttons Face towards this unit to change the source.
Press [TV] or [VCR] first to operate a Panasonic television or
video cassette recorder (➡ pages 36, 37).  HT900 AUX, DIGITAL input button [AUX, DIGITAL]
HT700 AUX button [AUX]
② Numbered buttons [1–9, 0, ≧10/-/]
[◄◄, ▶► SLOW/SEARCH]
23 Menu, Play list button [MENU, PLAY LIST]14, 21
<ul> <li>Return, TV volume up button [RETURN, TV VOL+] 12, 36</li> <li>Muting, Setup button [MUTING, SETUP]</li></ul>
<b>8</b> Audio, Zoom button [AUDIO, ZOOM] 18, 20
② HT900 Subtitle, Delay time button [SUBTITLE, DELAY TIME]18, 30
HT700 Subtitle button [SUBTITLE]
(28) HT900 Quick replay, Dynamic range compression button [QUICK REPLAY, DR COMP]
HT700 Quick replay button [QUICK REPLAY]15
Main unit
① Standby/on switch [Ů/l]
In standby mode, the unit is still consuming a small amount of power
② Standby/on indicator When the unit is connected to the AC mains supply, this indicator
lights up in standby mode and goes out when the unit is turned on.
© Custom Sound Memory button [C.S.M]
[  ◀◀/◀◀, ▶▶/▶▶ , ∨ TUNING ∧]
② Source select button [SELECTOR] HT900 DVD/CD→FM→AM→TV→VCR→AUX→DIGITAL IN
HT700 DVD/CD→FM→AM→TV→VCR→AUX→DIGITAL IN
33 Drawer
<ul> <li>Stop, Tune mode button [■, TUNE MODE]</li></ul>
③ Play, Memory button [▶, MEMORY]
<ul> <li>Volume control [VOLUME, DOWN, UP]</li></ul>
(39) Headphone jack [PHONES]
(4) HT900 DIGITAL IN button [DIGITAL IN]
Progressive out button [PROGRESSIVE]
[M.R.S, V.R.S]
Display     Remote control signal sensor
45) Disc indicators [DISC 1-5]
Disc exchange button [DISC EXCHANGE]
The proof skill button [Dioo oith
Subwoofer

RQT6756

48 AC supply indicator [AC IN]

This indicator lights when the unit is connected to the AC mains supply.



RAM DVD-A DVD-V VCD CD WMA MP3 JPEG

# Preparation

- Press [₺] to turn on the unit.
- Turn on the television and select the appropriate video input on the television to suit the connections for the unit.

# Press [DVD/CD] to select "DVD/CD" as the source.

## To enjoy progressive video Press [PROGRESSIVE].

The television will be disrupted for a moment but this is normal.



•Output from this unit is interlace if you have connected to the television through the VIDEO OUT, S-VIDEO OUT or SCART (AV) terminal or playing PAL discs, even if "PROG." is on the display.

# Press [▲] to open the drawer and place the disc(s) on the disc tray(s).

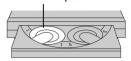
To load discs on the other trays, press [DISC SKIP] on the main unit.

If the disc contains both audio data (WMA and MP3) and JPEG, check "Mixed Disc-Audio & Stills" setting in the SETUP menu (→ page 33). Select "Stills (JPEG)" or "Audio (MP3/WMA)".

• Remove TYPE 2 and 4 discs

from their cartridges before use.

• Label-up (With double-sided discs, load so the label for the side you want to play is facing Play starts from the disc in the front-left position.



# Press [▲] to close the drawer.

The disc indicator lights red to show the disc in the play position is selected.

Press [▶] (play).

Play begins.

WMA MP3 CD (CD text only)

Group and track names are displayed on the television.

- Press [SUBTITLE] to turn the display on or off.
- You can also use the navigation menus to control play (→ page 22).
- 5 Adjust the volume.

-- dB 0 dB (Minimum) (Maximum)

# ■ To pause play

Press [ ] during play.

Press [▶] (play) to restart play.

## ■ To stop play

Press [■] (⇒ page 15, Resume function).

## ■ To select a disc

Press [DISC] and then the disc button ([DISC 1]-[DISC 5]).

# ■ To prevent damage

- •load more than one disc per tray.
- •touch the drawer or the carousel while they are in motion.
- •rotate the carousel by hand.
- •close the drawer by hand.

### Note

## If "○" appears on the television

The operation is prohibited by the unit or disc.

• It may take some time for play to start but this is normal.

### When a menu appears on the television

### DVD-A DVD-V VCD

# Press the numbered buttons to select an item.

### To select a 2-digit number

Example: To select item 23, press  $[\ge 10] \Rightarrow [2] \Rightarrow [3]$ .

 When playing DVDs, you can also use [▲, ▼, ◄, ►] to select items. Press [ENTER] to confirm your selection.

### To return to the menu screen

DVD-A DVD-V [TOP MENU]: Shows the first menu screen.

DVD-V [MENU]: Shows the menu screen.

VCD [RETURN]: Shows the menu screen.

### Note

The disc continues to rotate while the menu is displayed even after you finish playing an item. Press [■] when you finish to preserve the unit's motor and your television screen.

# Sequential play

VCD CD WMA MP3

The unit usually plays the disc in the play position and then stops. Turn sequential play on to play all loaded discs, except for DVDs and JPEG discs.

### While stopped

# Press [SEQUENTIAL].

Each time you press the button: **SEQ on** $\longleftrightarrow$ **SEQ off** 



### Note

- HighMAT menus and video CD playback control are disabled.
- •Only audio tracks can be played on HighMAT discs.
- You cannot change the mode during program or random play.
- Sequential Mode turns off when you switch the unit to standby.
- Repeat function does not work when using Sequential Mode.

# Changing the disc in the play position

RAM DVD-A DVD-V VCD CD WMA MP3 JPEG

Main unit only

1 Press [DISC EXCHANGE].

The drawer opens and the disc in the play position comes to the front-left position.

- 2 Change the disc in the front-left position.
- **3** Press [DISC EXCHANGE].

The drawer closes.

# Changing other discs during play

RAM DVD-A DVD-V VCD CD WMA MP3 JPEG

You can change the other discs without interrupting play.

Main unit only

- 1 Press [▲] to open the drawer.
- 2 Press [DISC SKIP] to rotate the carousel.

The carousel moves one tray clockwise and each subsequent press moves it two trays in alternate directions.

3 Change the disc and press [▲] to close the drawer.

# **Position Memory function**

RAM DVD-A DVD-V VCD CD WMA MP3 JPEG During play

# Press [P.MEMORY] (or [POSITION MEMORY]) to memorize a position.

Position memorized —O = • •

Press again to replace the position.

This position is saved even if you turn the unit off, change the source or change discs. When you turn the unit on, reselect "DVD/CD" or reinsert the disc whose position you memorized, "RESUME" lights on the display. Press [▶] (play) to start play from the memorized position. The position is cleared.

- You can memorize positions on up to five different discs at a time.
   When you memorize another position, the earliest position is replaced.
- You cannot recall the position in Sequential Mode.

### Resume function

"RESUME" lights on the display when the unit has recorded the position at which you stopped play.

Press [▶] (play) to start play from that position.

- •The position is cleared when you:
  - —Turn the unit off.
  - -Select another source or change discs.
- ●Press [■] to clear the position.

### **Chapter Review**

#### DVD-V

The following message appears immediately after you press [▶] (play) when "RESUME" is displayed.

Press [▶] (play) while the message is displayed and the beginning portions of each chapter up to the current one are played.



Full play resumes from the point where you pressed [**■**] or [P.MEMORY] (or [POSITION MEMORY]).

(This feature works only within a title.)

If you do not press [▶] (play), the message disappears and play starts from where you pressed [■] or [P.MEMORY] (or [POSITION MEMORY]).

# Replaying a scene—QUICK REPLAY

RAM DVD-A DVD-V VCD CD WMA MP3

Skip back a few seconds within the current item (program, track or title).

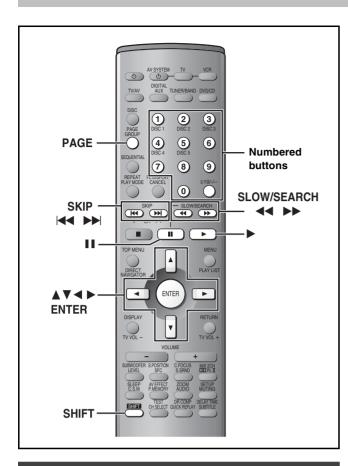
JPEG

Skip back a few pictures.

# During play Press [QUICK REPLAY].

# Note

This feature may not work while playing some parts of a disc or at all with some discs.



# Starting play from a selected item

RAM DVD-A DVD-V VCD CD WMA MP3 JPEG

# Press the numbered buttons to select the item.

Play starts from the selected item.

To select a 2-digit number

Example: To select track 23, press  $[\ge 10] \Rightarrow [2] \Rightarrow [3]$ .

WMA MP3 JPEG [2] → [3] → [ENTER]

### Note

- •This works only when stopped with some discs.
- When playing DVD-Audio and you want to start play from a track in a different group, select the group first (→ page 17).

# Selecting still pictures—Page Skip

### DVD-A

During play or while paused

### Press [SHIFT]+[PAGE].

The page changes each time you press the button.



# Skipping items

RAM DVD-A DVD-V VCD CD WMA MP3

During play or while paused

Press [ | ◀ ◀ ] or [ ▶ ▶ | ].

 $\bullet$  Press [ $\blacktriangleleft$ / $\blacktriangleleft$ ] or [ $\blacktriangleright$  $\blacktriangleright$ / $\blacktriangleright$  $\blacktriangleright$ ] on the main unit.

JPEG

Press [◀] or [▶] for picture skip, or [▲] or [▼] for group skip.

• Each press increases the number of skips.



# Fast forward and rewind—SEARCH

RAM DVD-A DVD-V VCD CD WMA MP3

**During play** 

Press [◀◀] or [▶▶].

- Press and hold [I◄◄/◄◄] or [►►/►►I] on the main unit.
- Audio will be heard during search for most discs. You can turn this audio off if you want to (→ page 33, Audio—Audio during Search).
- DVD-V You can slow down or speed up play (→ page 24).

# Slow-motion play

RAM DVD-V VCD

**DVD-A** (Motion picture parts only)

While paused

Press  $[\blacktriangleleft \blacktriangleleft]$  or  $[\blacktriangleright \blacktriangleright]$ .

Press and hold [I◄◄/◄◄] or [►►/►►] on the main unit.

# Frame-by-frame viewing

RAM DVD-V VCD

DVD-A (Motion picture parts only)

While paused

Press [**◄**] or [**▶**].

The frame changes each time you press the button.

- •The frames change in succession if you press and hold the button.
- Pressing [■■] also activates forward frame-by-frame.

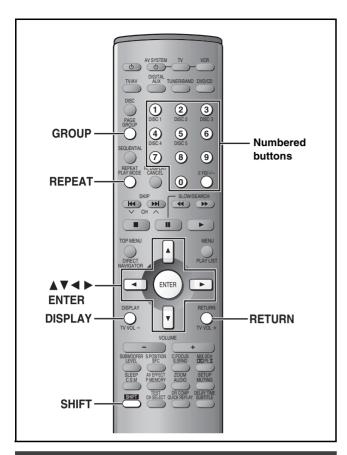
### **Notes**

- •The speed of search and slow-motion increases up to 5 steps.
- Press [►] (play) to restart play.
- You cannot move backwards with Video CD during frame-byframe and slow-motion.

### When playing Video CDs with playback control

Pressing buttons to perform skip, search or slow-motion may take you to a menu screen.

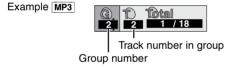
**©** 



# Selecting groups to play

DVD-A WMA MP3 JPEG

1 Press [GROUP].



- 2 Press the numbered buttons to select the group and press [ENTER].
- 3 Press the numbered buttons to select the track/picture number and press [ENTER].

### DVD-A

Playing all the groups in succession (→ Page 19, All group play)

### Playing bonus groups

Some discs contain bonus groups. If a password screen appears after selecting a group, enter the password with the numbered buttons. Refer also to the disc's jacket.

# Repeat play

RAM DVD-A DVD-V JPEG

VCD CD WMA MP3 (There is no on-screen display.)

**During play** 

# Press [SHIFT]+[REPEAT].

Each time you press the button:

### RAM

PG REPEAT → ALL REPEAT (Entire disc) → REPEAT OFF

During play list play

SCENE REPEAT→PL REPEAT→REPEAT OFF

#### DVD-V

CHAPTER REPEAT  $\rightarrow$  TITLE REPEAT \*  $\rightarrow$  REPEAT OFF VCD CD

TRACK REPEAT  $\rightarrow$  ALL REPEAT (Entire disc)  $\rightarrow$  REPEAT OFF DVD-A WMA MP3

TRACK REPEAT  $\rightarrow$  GROUP REPEAT  $\Rightarrow$  REPEAT OFF

JPEG

GROUP REPEAT → REPEAT OFF

- \*\*During all group (DVD-A), program and random play "ALL REPEAT" is displayed.
- You can also repeat play of content and group on HighMAT discs.

### ■ To repeat only your favorite tracks/chapters

Start program play (→ page 19) and press [SHIFT]+[REPEAT] to select the repeat mode.

# A-B repeat play

RAM DVD-A DVD-V VCD CD WMA MP3

You can repeat a section between points A and B within a program, title or track.

1 During play

Press [DISPLAY] until the unit information screen is displayed

(⇒ page 25).

2 Press [▲, ▼] to select the play menu.

Example DVD-V



- 3 Press [◀, ▶] to select "A-B Repeat" and
  - 1) Press [ENTER] at the starting point (A).
  - ② Press [ENTER] at the finishing point (B).





A-B repeat starts.

### To return to the normal play

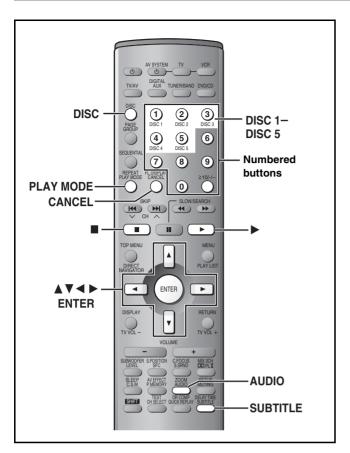
Press [ENTER] again.

### To clear the menus

Press [RETURN] until the menu disappears.

### Note

A-B repeat is canceled when you press [QUICK REPLAY].



• "-" or "--" is displayed instead of the language number in circumstances such as when no language is recorded on the disc.

VCD (SVCD only)

Soundtrack and subtitle numbers may change even if corresponding soundtracks are not recorded.

## **Soundtracks**

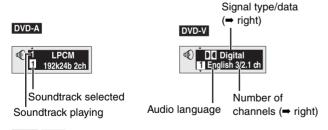
# RAM DVD-A DVD-V VCD

(Discs with multiple soundtracks)

### **During play**

# Press [AUDIO].

The number changes each time you press the button.





 You can also use this button to turn the vocals on and off on karaoke discs. Read the disc's instructions for details.

### DVD-A

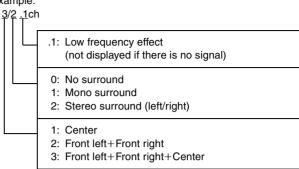
- Play restarts from the beginning of the soundtrack when changing soundtracks that are accompanied by still pictures.
- Even if a second soundtrack isn't recorded, two soundtrack numbers will normally be shown when you press [AUDIO]. The soundtrack currently playing is number 1.

## Signal type/data

LPCM/PPCM/DDDigital/DTS/MPEG: Signal type

k (kHz): Sampling frequency

b (bit): Number of bits ch (channel): Number of channels Example:



# **Subtitles**

**DVD-A** (Motion picture parts only)

DVD-V VCD (SVCD only)

You can change the subtitle language and turn the subtitles on and off.

#### RAM

You can turn the subtitles on and off.

### During play

# Press [SUBTITLE].

The number changes each time you press the button.



 In some cases, the subtitle language is not changed to the selected one immediately.

### To clear/display the subtitles

- 1 Press [SUBTITLE].
- 2 Press [▶]. (DVD-A DVD-V VCD)
- 3 Press [▲, ▼] to select "OFF" or "ON".
- Changing the position and brightness of the subtitles (⇒ page 26)

### DVD-A DVD-V VCD CD WMA MP3

# Common procedures for all group, program and random play

While stopped

Press [PLAY MODE].

Each time you press the button:

DVD-A DVD-V WMA MP3

All group ( $\overline{DVD-A}$ ) $\rightarrow$ Program $\rightarrow$  Random $\rightarrow$ off (Normal play)

VCD CD

(PGM)→1-DISC (RND)→ALL-DISC (RND)→off (Normal play)

### DVD-A

If you select bonus groups, you will have to enter a password ( $\Rightarrow$  page 17).

# All group play

#### DVD-A

The unit plays tracks in all the groups on a disc.

Press [▶] (play).

# **Program play**

You can select up to 24 items to play in the order you choose.

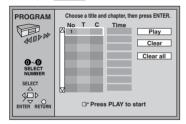
VCD CD (There is no on-screen display.)

You can program all the items on discs.

### DVD-A DVD-V WMA MP3

You can program all the items on a disc in the play position.

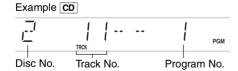
Example **DVD-V** 



VCD CD

Press the [DISC] and then the disc button ([DISC 1]–[DISC 5]).

2 Press the numbered buttons to select a title, chapter, group or track (WMA MP3 then press [ENTER]).



●To select a 2-digit number

Example: To select item 25, press  $[\ge 10] \rightarrow [2] \rightarrow [5]$ .  $[WMA] [MP3] [2] \rightarrow [5] \rightarrow [ENTER]$ 

Repeat this step to program other items.

• VCD CD

Step 1 is unnecessary when programming tracks on the same disc.

# • DVD-A DVD-V WMA MP3

### To select an item using the cursor buttons

Press [ENTER] and  $[\blacktriangle, \blacktriangledown]$  to select an item, then press [ENTER] again to register the number.

All the items in the selected disc, title or group are selected when you select "ALL".

# **3** Press [▶] (play).

## To add or change the program

VCD CD (Add only)

Repeat steps 1 and 2.

# DVD-A DVD-V WMA MP3

Press  $[\blacktriangle, \blacktriangledown]$  to select an available item, then repeat step 2.

#### To clear an item

VCD CD

Press [CANCEL].

## DVD-A DVD-V WMA MP3

- 1 Select the item you want to clear with [▲, ▼].
- 2 Press [CANCEL], or select "Clear" with [▲, ▼, ◄, ▶] and press [ENTER].

### To clear the whole program

VCD CD

Press [■] so "CLEAR" is displayed.

### DVD-A DVD-V WMA MP3

Select "Clear all" with [▲, ▼, ◄, ▶] and press [ENTER].

#### Note

### ● DVD-V WMA MP3

Times are not displayed while programming.

• VCD CD

Items the unit cannot find can be programmed but are canceled during play. This is also the case if you program DVD-RAM, DVD-Audio, DVD-Video, WMA, MP3 and JPEG.

 The program is cleared when you switch the unit to standby, select another source, exit the program mode by pressing [PLAY MODE] or move the disc out of the play position.

VCD CD

The program is retained in memory.

# Random play

VCD CD (There is no on-screen display.)

1-DISC (RND): You can play a disc in the play position in random

ALL-DISC (RND): You can play all discs in random order.

### DVD-A DVD-V WMA MP3

You can play items on a disc in the play position in random order.

# DVD-A DVD-V

# Press the numbered buttons to select a title or a group.

Example DVD-V





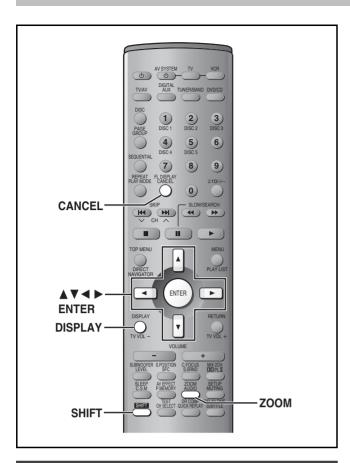
### DVD-A

- You can select more than one group.
- To enter all groups, select "All" using [◄, ▶] and press [ENTER].
- To deselect a group, press the numbered buttons corresponding to the group you want to clear.

# **2** Press [▶] (play).

### Note

During random play, empty trays are skipped and the playback control function on Video CDs is canceled.



# Marking places to play again

RAM DVD-A DVD-V VCD CD WMA MP3 JPEG

You can mark a position so you can return to it easily at a later time.

1 During play

Press [DISPLAY] until the unit information screen is displayed

(⇒ page 25).

2 Press [▲, ▼] to select the play menu.





3 Press [◀, ▶] to select "Marker" and press [ENTER].

Press [▶] to select an asterisk (\*).

4 Press [ENTER] at the point you want to mark.

## To mark another position

Up to 5 points (RAM only: up to 999 points)

- 1 Press [▶] to select "★".
- 2 Press [ENTER] at the point.

# To recall or erase a marker

- 1 Press [◀, ▶] to select a marker.
- 2 Press [ENTER] to recall or press [CANCEL] to erase.

#### RAM

### To mark the eleventh point and beyond

1 Press [◀, ▶] to select the marker pin icon.



2 Press [▲, ▼] to select "11-20".

You can select the next group when the current group is full.

#### Note

Markers added with this unit clear when you switch the unit to standby, change the source, or change the disc.

## **Variable Zoom function**

RAM DVD-V VCD

**DVD-A** (Motion picture parts only)

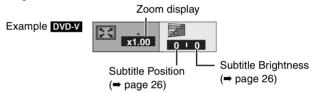
Change the zoom ratio so the picture expands to the optimum size to fill the screen.

### Preparation

Change the setting "TV Aspect" to suit your television (→ page 33).

### During play

# Press [SHIFT]+[ZOOM] to select the aspect ratio.



Each time you press the button:

4:3 Standard → European Vista → 16:9 Standard

## $\textbf{Cinemascope2} {\leftarrow} \textbf{Cinemascope1} {\leftarrow} \textbf{American Vista}$

 Refer to the disc's instructions and "Screen size" below for the aspect ratio of the picture.

## To restore the original ratio

Press [SHIFT]+[ZOOM] until the ratio returns to 1.00.

- The ratio also returns to 1.00 when you change the disc, change the source or switch the unit to standby.
- •The ratio may return to 1.00 when a menu is displayed.

### Making fine adjustments to the zoom ratio

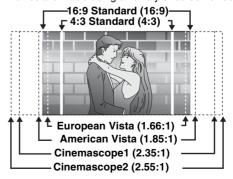
While the ZOOM icon is displayed

Press [▲,▼].

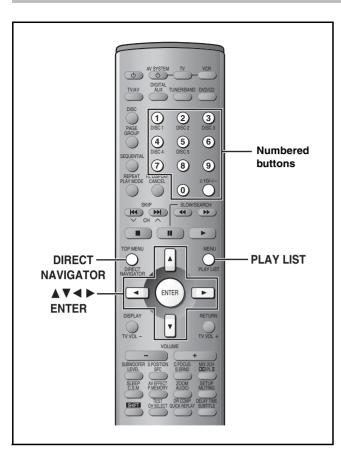
The ratio changes in 0.01 units between 1.00 and 1.60 and in 0.02 units between 1.60 and 2.00.

### **■** Screen size

Movies are made using a variety of screen sizes.



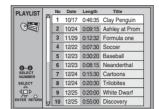
# Playing the programs or play lists on DVD-RAM



# Using the play list menu

You can play a group of scenes, a play list, created on other equipment such as a DVD video recorder.

1 Press [PLAY LIST].



- 2 Press [▲, ▼] to select the play list.
  - You can select play lists with the numbered buttons.
     To select a 2-digit number
     Example 23: [≥10] → [2] → [3]
- 3 Press [ENTER] to start play.

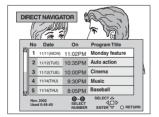
To clear the play list screen Press [PLAY LIST].

### RAM

# Selecting a program to play—DIRECT NAVIGATOR

Use the program list to find programs to play.

1 Press [DIRECT NAVIGATOR].



2 Press [▲, ▼] to select the program.

The selected program plays in the background.

You can select programs with the numbered buttons.

To colors a 2 digit number.

To select a 2-digit number Example 23:  $[\ge 10] \Rightarrow [2] \Rightarrow [3]$ 

3 Press [ENTER].

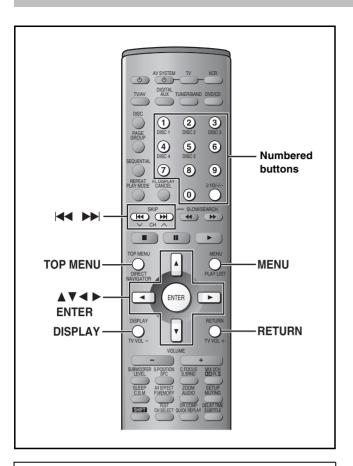
The program being played in the background continues.

To clear the program list

Press [DIRECT NAVIGATOR].

### Note

- •Titles appear only if you have entered them.
- You cannot change program and disc titles.



If the disc contains both audio data (WMA and MP3) and JPEG, check "Mixed Disc—Audio & Stills" setting in the SETUP menu (→ page 33). Select "Stills (JPEG)" or "Audio (MP3/WMA)".

WMA MP3 CD (CD text only) JPEG

Various menus help you find items you want to start play.

# **1** Press [TOP MENU].

WMA MP3 Audio navigation menu





"imicates the track currently playing.

Press [▲, ▼] to select a track or [▲, ▼, ◄, ▶] to select a picture, and press [ENTER].

To show other pages, press [▲, ▼, ◄, ▶] to select "Prev" or "Next" and press [ENTER].

 After listing all the tracks or pictures in one group, the list for the next group appears.

To exit to the menu Press [TOP MENU]. Track title search WMA MP3 CD (CD text only)

Example: finding a track including the word "LOVE"

1 While the menu is displayed

# Press [▲, ▼] to select "Find" and press [ENTER].



# 2 Press [▲, ▼] to select "L" and press [ENTER].

Characters change in alphanumeric order each time you press [▲].

Repeat this step to enter "O", "V", and "E".

- Press [I◄◄, ▶►I] to skip between A, E, I, O, and U.
- Only uppercase appear but the search also includes lower case.
- Press [◄] to erase a character.
- You can erase the asterisk (\*) to search for the first word in a title.
- You can enter numbers with the numbered buttons.
- 3 Press [►] to select "Find" and press [ENTER].

The search results screen appears.

4 Press [▲, ▼] to select the track and press [ENTER].

To return to the menu Press [RETURN].

To use the tree screen to find a group WMA MP3 JPEG

While the menu is displayed

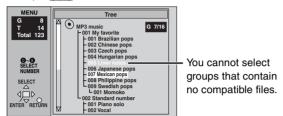
WMA MP3

Press [▶] while a track is highlighted to display a tree screen.

JPEG

Press  $[\blacktriangle, \blacktriangledown, \blacktriangleleft, \blacktriangleright]$  to select "Tree" and press [ENTER].

Example MP3



2 Press [▲, ▼, ◄, ▶] to select a group and press [ENTER].

The audio navigation menu/album display for the group appears.

### To return to the menu

Press [RETURN].

To use the contents screen to find a track CD (CD text only)

You can use the text information recorded on these discs to find a track to play.

1 While the menu is displayed

Press [▶] while a track is highlighted to display the contents screen.



2 Press [◀, ▶] to move through the tracks and press [ENTER].

To return to the menu

Press [RETURN].

See page 43 for details about WMA, MP3, CD text and JPEG.

# **Playing HighMAT discs**

A menu appears when you select the disc.

# Press $[\blacktriangle, \blacktriangledown, \blacktriangleleft, \blacktriangleright]$ to select then press [ENTER].

When you press [ENTER]:



Menu: Takes you to the next menu which shows play lists or another menu



Play list: play starts

- •To return to the menu screen Press [TOP MENU].
- •To return to the menu above the current one Press [RETURN].
- To change the menu background Press [DISPLAY].

The background changes to the one recorded on the disc.

# Selecting from the lists

1 During playing

# Press [MENU].

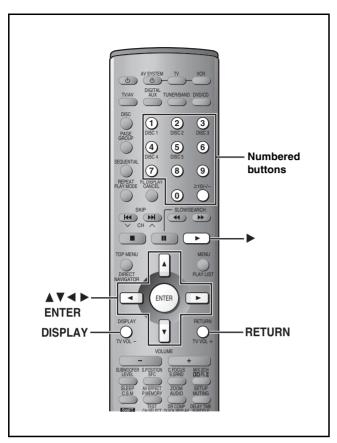


- 2 Press [◀] then [▲, ▼] to switch between the play list, group and content lists.
- 3 Press [▶] then [▲, ▼] to select an item and press [ENTER].

To exit the list screen Press [MENU].



HighMAT and the HighMAT logo are either trademarks or registered trademarks of Microsoft Corporation in the United States and/or other countries.



RAM DVD-A DVD-V VCD CD WMA MP3 JPEG

GUI screens are menus that contain information about the disc or unit. These menus allow you to perform operations by changing this information.

# Common procedures

# 1 Press [DISPLAY].

Each time you press the button:

Disc information (→ page 25)

↓
Progress indicator (→ right)
↓
Unit information (→ page 25)
↓
Original display

Unit information only

While the leftmost icon is highlighted

# Press [▲, ▼] to select the menu.

Each time you press the button:

→ Play menu
↓ ↑
Display menu
↓ ↑
Audio menu
↓ ↑
→ Picture menu

3 Press [◀, ▶] to select the item.

# 4 Press [▲, ▼] to select the setting.

- Items with "▲" or "▼" above and below can be changed by [▲, ▼].
- Press [ENTER] if the setting does not change after pressing
   [▲, ▼].
- Some items require different operations. Read the explanations on the following pages.

### For your reference

- Depending on the condition of the unit (playing, stopped, etc.) and the type of software you are playing, there are some items that you cannot select or change.
- When numbers are displayed (e.g. title No.), the numbered buttons are also effective for setting. After entering the numbers, press [ENTER] to register the setting.

### To clear the menus

Press [RETURN] until the menus disappear.

### ■ To change the position of the icons

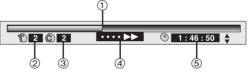
- 1 Press [◀, ▶] to select the rightmost icon.
- 2 Press [▲, ▼] to move the icons. (There are 5 positions.)



# Progress indicator

Indicates how far you have played through an item.

Example DVD-V



- (1) Current position RAM DVD-A DVD-V VCD CD WMA MP3
- ② PG: Program number RAM
  - PL: Play list number RAM
  - T: Title number DVD-V
    Track number VCD CD
  - G: Group number DVD-A WMA MP3 JPEG
- 3 T: Track number in group DVD-A WMA MP3
  - C: Chapter number DVD-V
  - P: Picture number JPEG
- 4 Condition-play, pause, or slow/search

RAM DVD-A DVD-V VCD CD WMA MP3

Play speed (⇒ below)

⑤ Changing the time display RAM DVD-A DVD-V VCD CD Press [▲, ▼] to show the elapsed play time or remaining time for the program, play list, track or title (or chapter during program and random play).

Elapsed play time VCD (SVCD only) WMA MP3 (display only, cannot be changed)

### Changing play speed

**DVD-A** (Motion picture part only)

**DVD-V** (Dolby Digital only)

You can slow down or speed up play.

### **During play**

# Press [◀] (slower) or [▶] (faster).

There are five speeds:

 $\times 0.8 \longleftrightarrow \times 0.9 \longleftrightarrow \times 1.0$  (normal speed)  $\longleftrightarrow \times 1.2 \longleftrightarrow \times 1.4$ 

After you change the speed, output is in stereo.

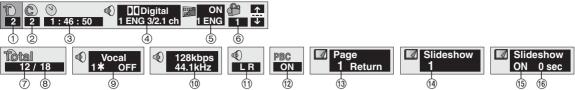
Sound is stereo as long as "×1.0" is orange.

To return to normal play (surround sound), press  $[\blacktriangleright]$  (play) or [ENTER].

Normal play is also restored when you return the speed to  $\times 1.0$  and clear the progress indicator.

Unless otherwise indicated, select items with  $[\blacktriangleleft, \blacktriangleright]$  and change with  $[\blacktriangle, \blacktriangledown]$ .

# **Disc information**



7	8 9	10	
1)	PG: Program number RAM PL: Play list number RAM G: Group number DVD-A WMA MP3 JPEG T: Title number DVD-V Track number VCD CD		[▲, ▼] ↓ [ENTER]
2	T: Track number in group  DVD-A WMA MP3  C: Chapter number DVD-V  P: Picture number JPEG		(ENTEN)
	Time RAM DVD-A DVD-V Select a position to start play by a time.	specifying	Numbered buttons ↓ [ENTER]
3	Changing the time display  RAM DVD-A DVD-V VCD CD  VCD (SVCD only) WMA MP3 I  Elapsed play time for the programming time for the group  (VCD CD)  A THE STATE OF THE PROGRAMMENT OF THE	gram, play lis	t, title or track
4	Soundtrack DVD-A DVD-V (→ p Refer to "Audio/Subtitle languag abbreviations.	,	for language
6	Subtitle language DVD-A DVD-(→ page 18) Refer to "Audio/Subtitle languag abbreviations. Subtitles on/off RAM DVD-A DT Track information on/off WMA Picture data JPEG Full: Group title, picture title, picture title, picture title, picture title, picture bate: Date of shooting only. OFF: No display *Displays differ depending on the condition of the data.	e" (➡ right)  OVD-V VCD (  IMP3 CD ((  cture size, fi  model used.	for language (SVCD only) CD text only) le size, date

6	Angle number DVD-A DVD-V Picture rotation JPEG 0←→90←→180←→270 ↑	
7	Track/picture number in disc WMA MP3 JPEG	[▲, ▼] ↓ [ENTER]
8	Total number of tracks/pictures on disc  WMA MP3 JPEG	Display only
9	Karaoke vocal on/off DVD-V (Karaoke DVI If a DVD title is a duet, select V1 or V2 to duet	
10	Current bitrate (kbps) Current sampling frequency (kHz) WMA MP3	Display only
11)	Audio mode RAM VCD LR←→L←→R ↑↑	
12	Menu play VCD (with playback control only)	Display only
13	Still picture number DVD-A  • To return to page 1  [◀, ▶]→Select "Return"→[ENTER]	
14)	Slideshow DVD-A Picture number	Display only
15)	Slideshow setting JPEG ON←→OFF	
16	Slideshow timing JPEG 0 sec-30 sec	

# Audio/Subtitle language

ENG: English	SVE: Swedish	CHI: Chinese
FRA: French	NOR: Norwegian	KOR: Korean
DEU: German	DAN: Danish	MAL: Malay
ITA: Italian	POR: Portuguese	VIE: Vietnamese
ESP: Spanish	RUS: Russian	THA: Thai
NLD: Dutch	JPN: Japanese	*: Others

# **Unit information**

## Play menu



1)	A-B repeat (→ page 17) RAM DVD-A DVD-V VCD CD WMA MP3	[ENTER]
2	Repeat mode (→ page 17) RAM DVD-A DVD-V JPEG	
3	Play mode (→ page 19)  DVD-A DVD-V : Normal play PGM: Program play RND: Random play ALL: All group play (DVD-A)	Display only
4	Marker RAM DVD-A DVD-V VCD CD WMA MP3 JPEG	➡ Page 20

### Audio menu



1	Double re-master (→ page 31)  RAM DVD-A DVD-V CD WMA MP3
2	Dialogue Enhancer on/off DVD-V (Discs where the dialogue is recorded in the center channel)
	This makes the dialogue in movies easier to hear.

### Display menu

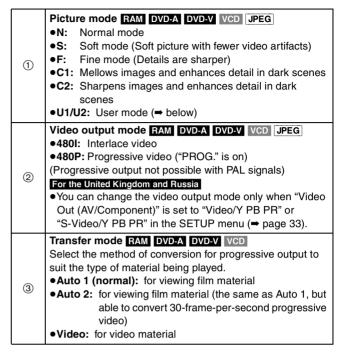


# 4:3 Aspect RAM DVD-A DVD-V VCD JPEG Select how to show images made for 4:3 aspect screens on a 16:9 aspect television. •Normal: laterally stretches images made for a 4:3 screen (1) • Auto: expands suitable 4:3 letterbox images to fill more of the screen. Other images appear in full in the center of •Shrink: images appear in the center of the screen. •Zoom: expands all images to fill the screen. If your television has a similar feature, use it instead for a better effect. Zoom (→ page 20) [ENTER] RAM DVD-A DVD-V VCD (2) [ENTER] Making fine adjustments to the zoom ratio Subtitle position/Subtitle brightness DVD-A DVD-V Position (0 to −60): in 2 unit steps (3) Brightness (Auto\*/0 to −9) \*The brightness adjusts automatically against the background. Bitrate display on/off RAM DVD-A DVD-V VCD During play: shows the bitrate (approximate values) of the video being played While paused: shows the data volume of the frame and type of picture (⇒ page 43, Glossary—I/P/ 9.438 Mbps ▶ 4 A record of bitrates for Current bitrate a sampling period. Average bitrate **OSD brightness** (-3 to +3)

Adjust the brightness of the on-screen displays.

#### Picture menu





### To change the user mode

- Select User mode and press [►] to highlight the number.
- 2 Press [▲, ▼] to select "1" or "2".



U1

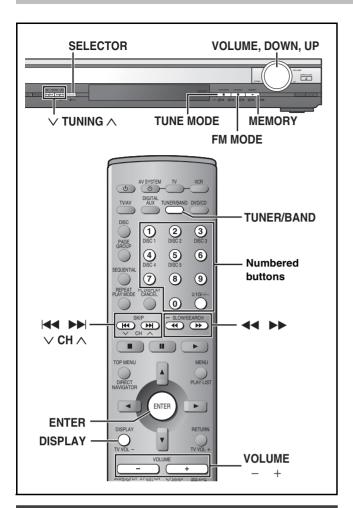


4	Contrast (-7 to +7) Increases the contrast between light and dark parts of the picture.
5	<b>Brightness</b> (0 to +15) Brightens the picture.
6	Sharpness (-7 to +7) Adjusts the sharpness of the edges of the horizontal lines.
7	Color (-7 to +7) Adjust the shade of the picture's color.
8	Gamma (0 to +5) Emphasis of outlines.

# U2



Only when "PROG." is on 1)–3) (➡ above)



# Manual tuning

Press [SELECTOR] to select "FM" or "AM".

Each time you press the button: 

- Remote control: Press [TUNER/BAND].
- Press [TUNE MODE] to select "MANUAL". Each time you press the button: MANUAL ←→ PRESET
- Press [∨ TUNING] or [TUNING ∧] to select the frequency of the required station.

Remote control: Press [◄◄] or [▶▶]

TUNED: Displayed when a radio station is tuned



ST: Displayed when a stereo FM broadcast is being received.

Press and hold [v TUNING] or [TUNING \lambda] until the frequency starts scrolling to start automatic tuning. Tuning stops when a station is found.

Adjust the volume.

## ■ If noise is excessive in FM Press [FM MODE] to display "MONO".



Press [FM MODE] again to cancel the mode. The mode is also canceled when you changed the frequency.

# Preset tuning

Preset channels to make selection simple. Up to 15 stations can each be set in the FM and AM bands.

### Automatic presetting

Tune to "FM 87.50 MHz" (⇒ above).

- Press and hold [ENTER].
  - •Main unit: Press and hold [MEMORY]. Release the button when "FM AUTO" is displayed.

The tuner presets all the stations it can receive into the channels in ascending order.

"SET OK" is displayed when the stations are set. The last station to be set is then played.

- Tune to "AM 522 kHz".
- Press and hold [ENTER].
  - •Main unit: Press and hold [MEMORY].

### ■ "ERROR" is displayed

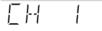
Presetting was unsuccessful. Preset manually.

### Manual presetting

- Tune to the station (⇒ left).
- Press [ENTER].
- While "PGM" is flashing

# Press the numbered buttons to select a channel.

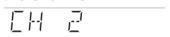
Alternatively, press [I◀◀, ∨ CH] or [▶▶I, CH ∧] then press [ENTER].



The station occupying a channel is erased if another station is preset in that channel.

### Selecting channels

- Press [TUNER/BAND] to select "FM"
- Press the numbered buttons or [ | **◄ ◀ ,** ∨ CH] or [ **▶ ▶ | ,** CH ∧ ] to select the channel.



To select a 2-digit number

Example: To select channel 12, press  $[\ge 10] \Rightarrow [1] \Rightarrow [2]$ 

# RDS broadcasting

## For the United Kingdom and Russia

The unit can display the text data transmitted by the radio data system (RDS) available in some areas.

If the station you are listening to is transmitting RDS signals, "RDS" will light up on the display.

### Displaying the text data Press [DISPLAY].

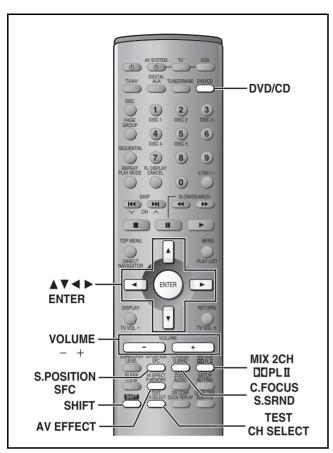
Each time you press the button:

PS→PTY→Frequency display

PTY displays				
NEWS	VARIED	FINANCE	COUNTRY	
AFFAIRS	POP M	CHILDREN	NATIONAL	
INFO	ROCK M	SOCIAL A	OLDIES	
SPORT	M.O.R. M*	RELIGION	FOLK M	
EDUCATE	LIGHT M	PHONE IN	DOCUMENT	
DRAMA	CLASSICS	TRAVEL	TEST	
CULTURE	OTHER M	LEISURE	ALARM	
SCIENCE	WEATHER	JAZZ		

\*"M.O.R. M"=Middle of the road music

RDS displays may not be available if reception is poor.



- Dolby Pro Logic, Dolby Pro Logic II, Super Surround, Center Focus, Multi Rear Surround, Virtual Rear Surround, Seat Position, Dynamic range compression and Subwoofer Level adjusting (➡ page 31) cannot be used if headphones are connected ("ERROR" appears on the display, excluding Seat Position).
- You may experience a reduction in sound quality when these sound field systems are used with some sources. If this occurs, turn the sound field system off.

# **Dolby Digital and DTS**

- Dolby Digital and DTS are digital encoding systems used on DVD to carry surround sound. Both were originally developed for use in cinemas.
- This unit automatically recognizes and decodes these systems.

Software encoded with Dolby Digital can be identified with this mark.

Software encoded with DTS can be identified with this mark.





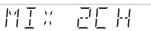
# Play a Dolby Digital or DTS source.

The Dolby Digital or DTS indicator lights.



# ■ To down-mix Dolby Digital or DTS (multiplechannel) signals to 2 channels

Press [SHIFT]+[MIX 2CH].



To cancel, press [SHIFT]+[MIX 2CH] again.

When "D.MIX" flashes on the display DVD-A

The DVD-Audio contains multiple-channel signals that cannot be down-mixed.

# **Dolby Pro Logic or Dolby Pro Logic II**

#### HT900

The Dolby Pro Logic II processor works not only on sources recorded with Dolby Surround, but also on any stereo source. There is a difference in sound quality between Dolby Pro Logic and Dolby Pro Logic II.

# **1** Press [DDPLII].



Each time you press the button:  $\texttt{MUSIC} {\rightarrow} \texttt{MOVIE} {\rightarrow} \texttt{PANORAMA} {\rightarrow} (\texttt{off})$ 

MUSIC: Adds surround effects to stereo sources.

MOVIE: Use this mode when playing movie software,
especially videotapes, recorded in Dolby Surround.

PANORAMA: Sound is spread out more so you feel like you
are surrounded by music.

# 2 Play a Dolby Surround or stereo source.

#### HT700

Dolby Pro Logic is a decoding system that was developed to get a better sense of presence from sources encoded with Dolby Surround. The feeling of position has been improved by the addition of a separate center speaker channel.

Software encoded with Dolby Surround can be identified with this mark (DVD, CD, Video CD, Laser Disc, Video tape).



# **1** Press [□□PL].



2 Play a Dolby Surround source.

### To cancel

Press [DOPL] or [DOPLII] again.

## Note

This does not work when playing multi-channel Dolby Digital.

# Speaker level adjustments

Adjust the level of the speakers so they are the same apparent level as the front speakers where you would normally be sitting and listening. (L, R → page 29, "Balance")

### Preparation

Press [DVD/CD].

1 Press [SHIFT]+[TEST] to output a test signal.

Lch: Front left
Cch: Center
Rch: Front right
RSch: Right surround
LSch: Left surround

2 Press [VOLUME, +] or [-] to set the volume level normally used for listening.

3 Press [▲] (to increase) or [▼] (to decrease).

C, RS, LS: -6 dB to +6 dB

To stop the test signal, press [SHIFT]+[TEST] again.

## ■ To adjust speaker level during play

1 Press [CH SELECT] to select the speaker.

 $\underset{\wedge}{\mathsf{Lch}} \rightarrow \mathsf{Cch} \rightarrow \mathsf{Rch} \rightarrow \mathsf{RSch} \rightarrow \mathsf{LSch} \rightarrow \mathsf{SWch}$ 

SWch: Subwoofer

- You can only adjust SWch if the disc includes a subwoofer channel.
- SWch does not appear on the display and is not adjustable when Dolby Pro Logic or Dolby Pro Logic II is turned on.
- 2 Press [▲] (to increase) or [▼] (to decrease).

L, R: (⇒ below)

C, RS, LS: -6 dB to +6 dBSW: -6 dB to +6 dB

#### Balance

You can adjust the balance of the front speakers.

- 1 Press [CH SELECT] to select "L" or "R".
- 2 Press [◀, ▶].
- When testing signal, you can also adjust the "L" or "R" balance of the front right and left speakers by pressing [◄, ►].

# **Super Surround**

Add surround effects to stereo sound.

# Press [S.SRND].

Each time you press the button:

 $\begin{array}{c} \mathsf{MUSIC} {\rightarrow} \mathsf{MOVIE} {\rightarrow} \mathsf{PARTY} {\rightarrow} (\mathsf{off}) \\ \uparrow \\ \\ \end{array}$ 

**MUSIC:** Adds surround effects to stereo sources. **MOVIE:** Use this mode when playing movie software.

**PARTY:** Sound is in stereo regardless of the direction you are facing.

 You can adjust the volume of the surround speakers to get the best surround effect (⇒ page 28, Speaker level adjustments).

### Note

- Turn Super Surround off when playing a DVD recorded with Dolby Digital or DTS. The surround effects will not be reproduced correctly if this is left on.
- Dolby Pro Logic or Dolby Pro Logic II (→ page 28) switches off.

# **Sound Field Control**

# Press [SFC] to select a setting.

Each time you press the button:

HEAVY: Adds punch to rock.
CLEAR: Clarifies higher sounds.
SOFT: For background music.

**DISCO:** Reverberates sound to make you feel like you were in a disco.

LIVE: Makes vocals more alive.

**HALL:** Expands sound to make you feel like you were in a hall.

**FLAT:** Canceled (no effect is added) (factory preset).

### To check the current setting

Press [SFC].

# Center Focus

(Discs where the dialogue is recorded in the center channel)

You can make the sound of the center speaker seem like it is coming from within the television.

# Press [SHIFT]+[C. FOCUS].



Each time you press the button:

CENTER FOCUS ON ←→ CENTER FOCUS OFF

- •This does not work when Super Surround is turned on.
- This will have less effect when Dolby Pro Logic or Dolby Pro Logic II is turned on.

# Multi Rear Surround (M.R.S)/ Virtual Rear Surround (V.R.S)

### HT900

S.SRND

SFC

## ■ Multi Rear Surround

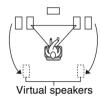
This mode makes it seem like sound is coming from multiple rear surround speakers virtually when connected with surround speakers.



### **■** Virtual Rear Surround

This mode is useful if you have to place your surround speakers near the front speakers due to the layout of your room.

This mode makes it seem like the sound from the surround speakers is coming from behind you.



# 1 Press and hold [SHIFT]+[AV EFFECT] to select M.R.S mode or V.R.S mode.

Each time you press and hold the button:

 $M.R.S \mod \longleftrightarrow V.R.S \mod e$ 

- "M.R.S" indicator lights when M.R.S mode turns on.
- "V.R.S" indicator lights when V.R.S mode turns on.

# **2** Press [SHIFT]+[AV EFFECT].

Each time you press the button:

M.R.S mode

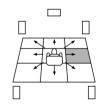
 $\begin{array}{c} \text{M.R.S 1 (Normal)} \rightarrow \text{M.R.S 2 (Enhanced)} \rightarrow \text{M.R.S OFF} \\ \uparrow \end{array}$ 

V.R.S mode

V.R.S 1 (Normal)  $\rightarrow$  V.R.S 2 (Enhanced)  $\rightarrow$  V.R.S OFF  $\uparrow$ 

# **Seat Position**

Using this function makes you feel like you are sitting in the ideal seating position (in the center of the circle formed by the speakers), even if you cannot due to the layout of your room.



1 Press [SHIFT]+ [S.POSITION].



2 While "S.POS" is flashing

Press  $[\blacktriangle, \blacktriangledown, \blacktriangleleft, \blacktriangleright]$  to select a position.

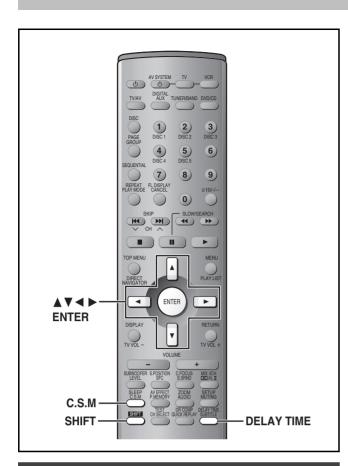


### To cancel

Press [SHIFT]+[S.POSITION] to clear "S.POS".

### Note

While virtual rear surround is on, the seat position is changed in three horizontal steps.



# Custom Sound Memory—Store the sound settings

DVD-A DVD-V VCD CD

Store the sound settings for a disc so the unit recalls them the next time you play it.

- •Number of discs: 30
- Settings: Dolby Pro Logic, Dolby Pro Logic II, Subwoofer level, Center Focus, Sound Field Control, Super Surround
- Store the settings
- 1 Make the settings.
- 2 Press and hold [C.S.M].



# ■ Recall the settings

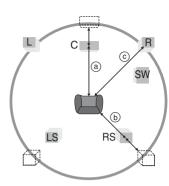
The unit recalls the settings when you play the disc again.

- •The settings are replaced if you change them.
- When you store settings for a 31st disc, the earliest settings disappear.
- Press [C.S.M] while "CSM" is lit and the settings return to those that were on before the settings are recalled.
- Press [C.S.M] while "CSM" is out and you are playing a disc for which you stored settings and those settings are recalled.

# Changing the delay time

### HT900

Enhance sound perception using this feature. Adjust the delay time for Dolby Digital when "DIGITAL IN" is selected as the source when connected with a satellite receiver or for Dolby Pro Logic II when Dolby Pro Logic II is turned on. Adjust the Dolby Digital delay time settings from the SETUP menu when not using a "DIGITAL IN" source (page 34).



# 1 Press [SHIFT]+[DELAY TIME].

Each time you press the button:

Sch←→Cch

"Cch" appears only when Dolby Pro Logic II is turned off.

# 2 Press [▲, ▼] to adjust.

#### Values

If distance a or b is greater than or equal to distance o, set to "0".

If distance (a) or (b) is less than distance (c), set as follows.

### When Dolby Digital is being received

### (a) Center speaker

Difference	Setting
15–45 cm	1 ms
46–75 cm	2 ms
76–105 cm	3 ms
106–135 cm	4 ms
136–165 cm	5 ms

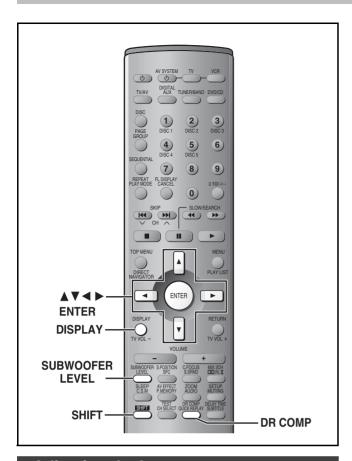
### **(b)** Surround speakers

Difference	Setting	
75–225 cm	5 ms	
226–375 cm	10 ms	
376–525 cm	15 ms	

When you change the surround speaker setting for Dolby Digital, the setting also changes for Dolby Pro Logic II.

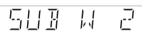
E.g., the setting for MUSIC and PANORAMA are the same as that for Dolby Digital.

Dolby Digital	Dolby Pro Logic II			
Dolby Digital	MUSIC	MOVIE	PANORAMA	
0 ms	0 ms	10 ms	0 ms	
5 ms	5 ms	15 ms	5 ms	
10 ms	10 ms	20 ms	10 ms	
15 ms	15 ms	25 ms	15 ms	



# Adjusting the bass

# Press [SUBWOOFER LEVEL].



Each time you press the button:

SUB W 1→SUB W 2→SUB W 3→SUB W 4 (factory preset)

# Double re-master—Enjoying more natural sound

### RAM DVD-A DVD-V CD

Discs recorded with 2-channel LPCM at 44.1 kHz or 48 kHz

This feature gives you a more natural sound by adding the higher frequency signals not recorded on the disc.

WMA MP3

Discs recorded at 44.1 kHz or 48 kHz

This feature reproduces the frequencies lost during recording to give you a sound closer to the original.

**1** During play

Press [DISPLAY] until the unit information screen is displayed (\*page 25).

Press [▲, ▼] to select the audio menu.



Double Re-master

- 3 Press [◀, ▶] to select "Double Re-master".
- 4 Press [**▲**, **▼**].

Each time you press the button:

Setting	RAM DVD-A DVD-V CD Type of music	WMA MP3 Effect level
1	High tempo (e.g., pops and rock)	Light
2	Various tempos (e.g., jazz)	Medium
3	Low tempo (e.g., classical)	Strong
OFF	Off	Off

### Note

### HT900

This doesn't work if input is "DIGITAL IN".

# DR COMP—Dynamic range compression

### HT900

Change this setting to listen to a source recorded with Dolby Digital when "DIGITAL IN" is selected as the source at low volume (such as late at night) and maintain audio clarity. This setting reduces the peak level in loud scenes without affecting the sound field.

# Press [SHIFT]+[DR COMP].

Each time you press the button:

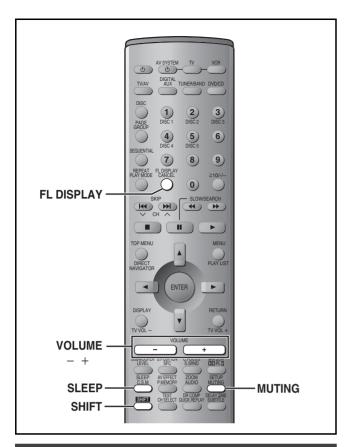
STANDARD→MAX→OFF

↑

STANDARD: The level recommended by the producer of the source for household viewing.

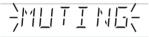
MAX: The maximum allowable compression (recommended for night viewing).

OFF: Source is played with the original dynamic range (factory setting).



# Muting the volume

# Press [MUTING].



Volume is reduced to minimum.

### To cancel

Press [MUTING] again or reduce the volume to minimum (-- dB), then raise it to the required level.

Muting is also canceled when you switch the unit to standby.

# Dimming the display

# Press [SHIFT]+[FL DISPLAY].

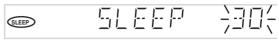
To return to the original brightness, press [SHIFT]+[FL DISPLAY] again.

The display also returns to the original brightness when you switch the unit to standby.

# The sleep timer

This timer turns the unit off after a set time.

# Press [SHIFT]+[SLEEP] to select the time (minutes).



Each time you press the button:

SLEEP 30 — SLEEP 60 — SLEEP 90 — SLEEP 120

### To cancel the timer

Press [SHIFT]+[SLEEP] to select "SLEEP OFF".

### To check the SLEEP setting

Press [SHIFT]+[SLEEP] once.

•The time remaining appears.

## To change the setting

Press [SHIFT]+[SLEEP] to display the remaining time, then press again to select the required time.

# **Using headphones**

# 1 Reduce the volume and connect the headphones (not included).

Headphone plug type: 3.5 mm stereo

Panasonic

# 2 Adjust headphone volume with [VOLUME].

Audio is automatically switched to stereo (2-channel).

### Note

Avoid listening for prolonged periods of time to prevent hearing damage.

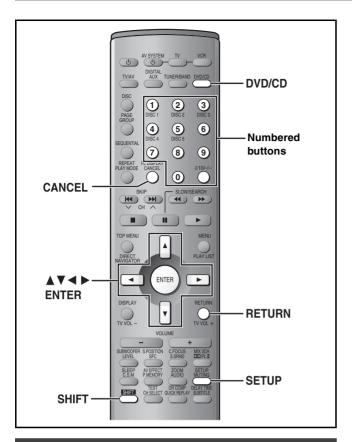
# **Changing settings**

This chart shows the settings for this unit. Change the settings to suit your preferences and to suit the unit to the environment in which it is being used. These settings are retained in memory until they are changed, even if the unit is turned off. See page 34 for details on menu operation.

•Underlined items are the factory preset.

Menus	Items	Options
Disc	Audio Choose the preferred audio language.	English       French       German       Italian       Spanish         Portuguese       Swedish       Dutch       Original       Other ****         Original:       The original language of each disc will be selected.         Other ****:       Input a code number with the numbered buttons (➡ page 35).
	Subtitle Choose the preferred subtitle language.	Automatic English French German Italian Spanish Portuguese Swedish Dutch Other **** Automatic: If the language selected for "Audio" is not available, subtitles of that language will automatically appear if available on that disc.
	Menus Choose the preferred language for disc menus.	English French German Italian Spanish Portuguese Swedish Dutch Other ***
	Ratings (→ page 34) Set a ratings level to limit DVD-Video play.  •The password screen is shown if you choose levels 0 to 7 or if you choose "Ratings" when levels 0 to 7 have been selected.	Setting ratings (When level 8 is selected)  8 No Limit: All DVD-Video can be played.  1 to 7: Prohibits play of DVD-Video with corresponding ratings recorded on them.  0 Lock All: Prohibits play of all DVD-Video.
	Select "Level 0" to prevent play of discs that do not have ratings levels recorded on them.	Changing ratings (When level 0-7 is selected) Unlock Player Change Level Change Password Temporary Unlock
Video	TV Aspect (→ page 12) Choose the setting to suit your television and preference.	4:3 Pan&Scan 4:3 Letterbox 16:9
	TV Type (→ page 12) Select to suit the type of television.	Standard (Direct View TV) CRT Projector LCD TV/Projector Projection TV Plasma TV
	*Video Out (AV/Component) (→ page 9) Choose the video signal format to be output from the SCART (AV) and Component terminal.	Video/Y PB PR S-Video/Y PB PR RGB/No Output
	Still Mode Specify the type of picture shown when paused.	<u>Automatic</u> Field Frame
	NTSC Disc Output Choose whether PAL 60 or NTSC signals are output during playback of NTSC discs (➡ page 5).	PAL60: when connected to a PAL television.  NTSC: when connected to an NTSC television.
Audio	Speaker Setting (→ page 34) Set the delay time for your center and surround speakers.	Multi-channel Center: 0/1.3/2.6/3.9/5.3 ms Surround (L/R): 0/5.3/10.6/15.9 ms
,	Dynamic Range Compression (Dolby Digital only) Change the dynamic range for late night viewing.	Off On: For clear dialog when listening at low volume.
	Audio during Search Choose whether to have sound during search.	On Off  ●This feature doesn't work for some discs.
Display	Menu Language Choose the preferred language for these menus and the onscreen messages.	English Français Deutsch Italiano Español Português Svenska Nederlands
	On-Screen Messages Choose whether to show on-screen messages or not.	<u>On</u> Off
Others	HighMAT Play HighMAT discs as HighMAT discs, or as regular WMA/ MP3/JPEG discs.	Enable: Play HighMAT discs as HighMAT discs.  Disable: Play HighMAT discs as regular WMA/MP3/JPEG discs.
	Mixed Disc—Audio & Stills Select the type of file played on discs containing both JPEG and WMA/MP3.	Audio (MP3/WMA) Stills (JPEG)
	DVD-Video Mode Select how to play pictures contained on some DVD-Audio. The setting returns to "Off" when you remove the disc, turn the unit off or change the source.	Off: DVD-Audio are played as DVD-Audio. On: DVD-Video contents found on DVD-Audio can be played.
	QUICK SETUP (➡ page 12) Answer questions to make basic settings.	Yes (Menu language, Audio language, Subtitle language, TV type, TV aspect, Video out*)  No

<sup>\*</sup>For the United Kingdom and Russia



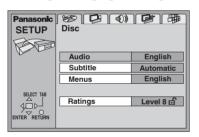
# Common procedures

See page 33 for menu and option details.

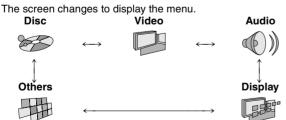
### Preparation

Press [DVD/CD]

1 Press [SHIFT]+[SETUP] to show the menus.



2 Press [◀, ▶] to select the menu's tab.



- 3 Press [▲, ▼] to select the item you want to change and press [ENTER].
- 4 Press [▲, ▼, ◄, ▶] to select the option and press [ENTER].

The screen now shows the menu again.

# To return to the previous screen Press [RETURN].

# When you are finished

# Entering a password (Ratings)

### DVD-V

The password screen is shown when you select levels 0 to 7.

- 1 Input a 4-digit password with the numbered buttons and press [ENTER].
  - If you enter a wrong number, press [CANCEL] to erase it before you press [ENTER].
  - •The lock symbol appears closed to show the rating is locked.
  - •Do not forget your password.
- 2 Press [ENTER] to confirm the 4 digits.

Now, when you insert a DVD-Video that exceeds the ratings limit you set, a message appears on the television. Follow the on-screen instructions.

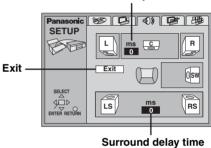
# Changing the delay time (Speaker Setting)

### DVD-V

## (Dolby Digital, center and surround speakers only)

For optimum listening with 5.1-channel sound, all the speakers, except for the subwoofer, should be the same distance from the seating position. If you have to place the center or surround speakers closer to the seating position, adjust the delay time to make up for the difference.

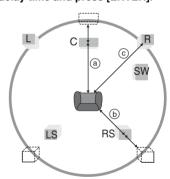
### Center delay time



- 1 Press [▲, ▼] to select the delay time box and press [ENTER].
- 2 Press [▲, ▼] to adjust the delay time and press [ENTER].

### Values

If distance (a) or (b) is greater than or equal to distance (c), set to "0". If distance (a) or (b) is less than distance (c), set as follows.



### (a) Center speaker

Difference	Setting
Approx. 50 cm	1.3 ms
Approx. 100 cm	2.6 ms
Approx. 150 cm	3.9 ms
Approx. 200 cm	5.3 ms

## **b** Surround speakers

Difference	Setting
Approx. 200 cm	5.3 ms
Approx. 400 cm	10.6 ms
Approx. 600 cm	15.9 ms

### When you are finished

Press [◀] to select "Exit" and press [ENTER].

Language	code l	list									
Abkhazian:	6566	Chinese:	9072	Hausa:	7265	Lithuanian:	7684	Romanian:	8279	Telugu:	8469
Afar:	6565	Corsican:	6779	Hebrew:	7387	Macedonian:	7775	Russian:	8285	Thai:	8472
Afrikaans:	6570	Croatian:	7282	Hindi:	7273	Malagasy:	7771	Samoan:	8377	Tibetan:	6679
Albanian:	8381	Czech:	6783	Hungarian:	7285	Malay:	7783	Sanskrit:	8365	Tigrinya:	8473
Ameharic:	6577	Danish:	6865	Icelandic:	7383	Malayalam:	7776	Scots Gaelic:	7168	Tonga:	8479
Arabic:	6582	Dutch:	7876	Indonesian:	7378	Maltese:	7784	Serbian:	8382	Turkish:	8482
Armenian:	7289	English:	6978	Interlingua:	7365	Maori:	7773	Serbo-Croatian	ı: 8372	Turkmen:	8475
Assamese:	6583	Esperanto:	6979	Irish:	7165	Marathi:	7782	Shona:	8378	Twi:	8487
Aymara:	6588	Estonian:	6984	Italian:	7384	Moldavian:	7779	Sindhi:	8368	Ukrainian:	8575
Azerbaijani:	6590	Faroese:	7079	Japanese:	7465	Mongolian:	7778	Singhalese:	8373	Urdu:	8582
Bashkir:	6665	Fiji:	7074	Javanese:	7487	Nauru:	7865	Slovak:	8375	Uzbek:	8590
Basque:	6985	Finnish:	7073	Kannada:	7578	Nepali:	7869	Slovenian:	8376	Vietnamese:	8673
Bengali; Bangla	a:6678	French:	7082	Kashmiri:	7583	Norwegian:	7879	Somali:	8379	Volapük:	8679
Bhutani:	6890	Frisian:	7089	Kazakh:	7575	Oriya:	7982	Spanish:	6983	Welsh:	6789
Bihari:	6672	Galician:	7176	Kirghiz:	7589	Pashto, Pushto:	8083	Sundanese:	8385	Wolof:	8779
Breton:	6682	Georgian:	7565	Korean:	7579	Persian:	7065	Swahili:	8387	Xhosa:	8872
Bulgarian:	6671	German:	6869	Kurdish:	7585	Polish:	8076	Swedish:	8386	Yiddish:	7473
Burmese:	7789	Greek:	6976	Laotian:	7679	Portuguese:	8084	Tagalog:	8476	Yoruba:	8979
Byelorussian:	6669	Greenlandic:	7576	Latin:	7665	Punjabi:	8065	Tajik:	8471	Zulu:	9085
Cambodian:	7577	Guarani:	7178	Latvian, Lettish	7686	Quechua:	8185	Tamil:	8465		
Catalan:	6765	Gujarati:	7185	Lingala:	7678	Rhaeto-Romance:	8277	Tatar:	8484	[	

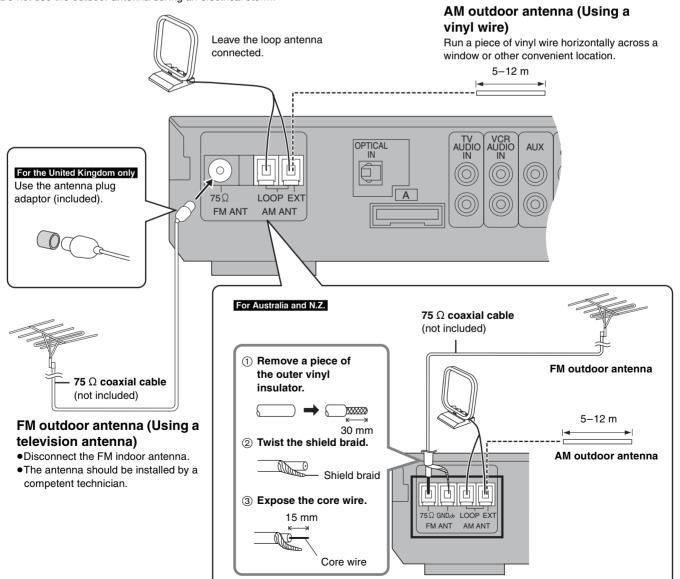
# **Optional antenna connections**

Use outdoor antennas if radio reception is poor.

#### Note

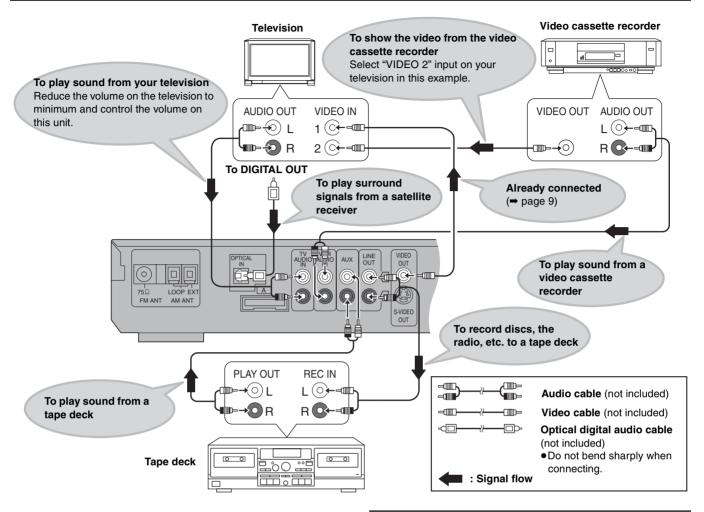
Disconnect the antenna when the unit is not in use.

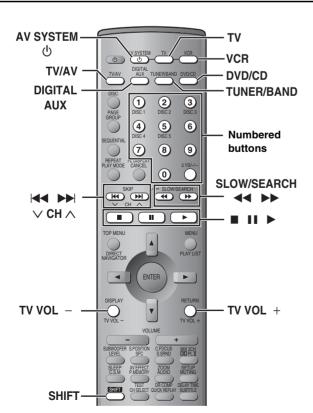
Do not use the outdoor antenna during an electrical storm.



RQT6756

# Connection example





# Operating the television and the video cassette recorder

You can use the remote control to operate a Panasonic television or a video cassette recorder. (Some models cannot be operated by this remote control.)

# Television

### Preparation

- Face the remote control at this unit and press [TV]. The button lights and "TV" appears on the unit's display. You can operate the television.
- Face the remote control at the television for the following operations.

# Turning the television on/off Press [ AV SYSTEM].

Switching the television's video input mode Press [TV/AV].

Changing channels
Press [◄◄, ∨ CH] or [►►, CH ∧].

Adjusting the volume Press [TV VOL+] or [TV VOL-].

### Video cassette recorder

### Preparation

- Face the remote control at this unit and press [VCR]. The button lights and "VCR" appears on the unit's display. You can operate the video cassette recorder.
- Change the video input mode on the television ("VIDEO 2" in the example).
- Face the remote control at the video cassette recorder for the following operations.

# Turning the video cassette recorder on/off Press [the AV SYSTEM].

Play, pause and stop Press [▶], [▮] or [▮].

Fast forward and rewind

Press [◀◀] or [▶▶].

# You can connect a laser disc or record player instead of a video cassette recorder.

Connect as shown on page 36 and select "VCR" as the source.

### When connecting a record player

We recommend using a record player with a built-in phono equalizer. If your player doesn't have a built-in equalizer, connect it first to a separate equalizer and then connect that to this unit.

### Changing the remote control code

#### HT900

This remote control can also operate some other brands of televisions and video cassette recorders. Change the code (➡ below) to operate such equipment and some Panasonic products.

While aiming the remote control at the equipment,

# Press and hold [TV] or [VCR],

# Press a numbered button to enter the first digit,

# Press a numbered button to enter the second digit.

The remote control outputs the on/off signal. If the code is correct, the equipment turns on or off. If it doesn't, try entering another code.

 Note that this remote control cannot operate some equipment and that it may not be able to perform some operations.

I NOKIA

05 07 37

• Reenter the codes after you change the batteries.

# Operating the tape deck or satellite receiver

Listening to the tape deck

# Press [AUX] to select "AUX" as the source.

# Recording to the tape deck

# 1 •Disc

Press [DVD/CD] to select "DVD/CD".

The radio

Press [TUNER/BAND] to select "FM" or "AM".

# 2 Start recording and play.

Listening to the surround signals from a satellite receiver

#### HT900

This unit can decode the surround signals received through satellite broadcasts. Refer to your satellite receiver's operating instructions for details.

# Press [SHIFT]+[DIGITAL] to select "DIGITAL IN" as the source.

•Main unit: Press [DIGITAL IN].

# Television code list

PANASONIC.	01, 29, 30, 31	NONIA.	05, 07, 37
AKAI:	07, 11, 28, 36, 37	NORDMENDE:	26, 41
ALBA:	05, 11, 12	OCEANIC:	27, 35
BAUR:	32	ORION:	02, 03, 05, 10, 11,
BLAUPUNKT:	28, 36		12, 38
BRANDT:	26, 41	PHILIPS:	11, 12, 13, 15
BUSH:	02, 05, 10, 11, 12,	PHONOLA	11, 12
	32, 38	RADIOLA:	11, 12
DAEWOO:	11, 12, 32	ROADSTAR:	39
DUAL:	32	SABA:	26, 41
FERGUSON:	11, 12	SALORA:	07, 37
FINLUX:	11, 12, 22, 23, 24,	SAMSUNG:	11, 12, 15, 21, 25,
	25, 40		34, 39
FISHER:	37	SANYO:	07, 17, 25, 37
FUNAI:	02, 38	SCHNEIDER:	11, 12
GOLDSTAR:	11, 12	SEG:	39, 40
GOODMANS:	11, 12, 25, 32	SELECO:	11, 24
GRUNDIG:	28, 36	SHARP:	17, 20
HITACHI:	01, 09, 26, 41	SIEMENS:	11, 12, 17, 28, 36
ICE:	21, 39	SINUDYNE:	02, 05, 11, 12, 22,
INNO HIT:	34		24, 38, 40
ITT/NOKIA:	05, 07, 37	SONY:	16
JVC:	18	THOMSON:	05, 26, 41
KENDO:	40	THORN:	06, 08, 11, 12, 14,
LOEWE:	14, 33		16, 25, 32
LOEWE OPTA:		TOSHIBA:	03, 04, 06, 08
LUXOR:	37	UNIVERSUM:	39
MATSUI:	02, 05, 06, 07, 10,	WHITE WESTIN	
	11, 12, 25, 37, 38		11, 12, 22, 40
MITSUBISHI:	14, 19, 28, 36		

### Video cassette recorder code list

Tidoo dada			
PANASONIC:	01, 29, 30	NORDMENDE:	20, 21
AKAI:	06, 08, 16, 17, 19,	OKANO:	06
	37	ORION:	05, 09
ALBA:	02, 06, 23	PHILIPS:	22, 32, 33, 34, 35
BAIRD:	08, 10, 37	PHONOLA:	32
BLAUPUNKT:	01, 26, 29, 30, 33	RFT:	33
BUSH:	02, 09, 23	ROADSTAR:	02, 03, 18, 23, 27
DAEWOO:	15	SABA:	21
FERGUSON:	31	SALORA:	08, 11, 17, 19, 37
FISHER:	05, 07, 10, 11, 12	SAMSUNG:	15, 16, 18, 27
GOLDSTAR/LG:	03, 04, 36, 37	SANYO:	07, 10, 11
GOODMANS:	02, 03, 18, 23, 27,	SCHAUB LORENZ:	10
ODLINDIO:	33	SCHNEIDER:	02, 03, 18, 23, 27,
GRUNDIG:	02, 23, 26, 28, 32,	CEC.	32
HCM:	33 02, 23	SEG: SHARP:	02, 18, 23, 27 22
HITACHI:	13, 14	SIEMENS:	
ITT:	08, 10, 11, 37	SONY:	03, 10, 11, 32 24, 25, 26
ITT/NOKIA:	18, 27, 37	THOMSON:	24, 25, 20
JVC:	20, 21	THORN:	10
KENDO:	08, 09, 37	TOSHIBA:	15, 17, 19, 32
LOEWE:	03, 32	UNIVERSUM:	03, 08, 32, 37
LUXOR:	08, 10, 11, 17, 19,	0.1.1.2.1.00.1.1.1	00, 00, 02, 0.
207.0	37		
MATSUI:	03, 05, 09		
METZ:	01		
MITSUBISHI:	17, 19, 21, 32		
NEC:	04, 21, 36, 37		
NOKIA:	08, 10, 11, 18, 22,		
	27, 37		

RQT6756

# **Specifications**

# **AMPLIFIER SECTION**

H1900	
RMS Output Power: Dolby Digital Mode, 10 9	% Total Harmonic
Distortion	

1 kHz Front CH 55 W per channel (6  $\Omega$ ) 1 kHz Surround CH 55 W per channel (6 Ω) 1 kHz Center CH 160 W per channel (6  $\Omega$ ) 100 Hz Subwoofer CH 220 W per channel (4  $\Omega$ )

**Total RMS Dolby Digital Mode Power** 600 W

DIN Output Power: Dolby Digital Mode, 1 % Total Harmonic

Distortion

1 kHz Front CH 40 W per channel (6  $\Omega$ ) 1 kHz Surround CH 40 W per channel (6  $\Omega$ ) 1 kHz Center CH 120 W per channel (6  $\Omega$ ) 100 Hz Subwoofer CH 150 W per channel (4  $\Omega$ )

**Total DIN Dolby Digital Mode Power** Input sensitivity/Input impedance

**AUX** 250 mV, 15  $k\Omega$ 

HT700

RMS Output Power: Dolby Digital Mode, 10 % Total Harmonic Distortion

1 kHz Front CH 50 W per channel (6  $\Omega$ ) 1 kHz Surround CH 50 W per channel (6  $\Omega$ ) 1 kHz Center CH 100 W per channel (6  $\Omega$ ) 100 Hz Subwoofer CH 200 W per channel (4  $\Omega$ )

**Total RMS Dolby Digital Mode Power** 500 W

DIN Output Power: Dolby Digital Mode, 1 % Total Harmonic Distortion

1 kHz Front CH 35 W per channel (6  $\Omega$ ) 35 W per channel (6  $\Omega$ ) 1 kHz Surround CH 1 kHz Center CH 80 W per channel (6  $\Omega$ )

100 Hz Subwoofer CH 130 W per channel (4  $\Omega$ ) **Total DIN Dolby Digital Mode Power** 350 W

Input sensitivity/Input impedance

250 mV, 15  $k\Omega$ 

### **FM TUNER SECTION**

For the United Kingdom and Russia

Frequency range 87.50-108.00 MHz (50-kHz step) Sensitivity 1.8 µV (IHF) S/N 26 dB 1.5 µV Antenna terminals 75 Ω (unbalanced) **Preset station** 15

For Australia and N.Z.

Frequency range 87.50-108.00 MHz (50-kHz step) Sensitivity 2.5 µV (IHF) S/N 26 dB 2.2 uV Antenna terminals 75 Ω (unbalanced) Preset station

# **AM TUNER SECTION**

Frequency range 522-1629 kHz (9-kHz step) AM Sensitivity S/N 20 dB at 999 kHz 560 μV/m **Preset station** 15

### **DISC SECTION**

Discs played [8 cm or 12 cm]

(1) DVD-RAM (DVD-VR formatted disc)

(2) DVD-Audio

(3) DVD-Video

(4) DVD-R (DVD-Video formatted disc)

(5) CD-Audio (CD-DA)

(6) Video CD

(7) SVCD (Conforming to IEC62107)

(8) CD-R/CD-RW (CD-DA, Video-CD formatted disc)

(9) MP3/WMA

•Maximum number of tracks and groups recognizable:

999 tracks and 99 groups

Compatible compression rate: MP3: between 32 kbps and 320 kbps WMA: between 48 kbps and 192 kbps

(10) JPEG

• Exif Ver 2.1 JPEG Baseline files

•Maximum number of pictures and groups recognizable:

3000 pictures and 300 groups

• Picture resolution: between 320×240 and 6144×4096 pixels (Sub sampling is 4:2:2 or 4:2:0)

(11) HighMAT Level 2 (Audio and Image)

Video

430 W

Signal system PAL/PAL60 **Output level** Composite video 1 Vp-p (75 Ω)

> S-video Y output level 1 Vp-p (75 Ω) C output level 0.3 Vp-p (75  $\Omega$ ) (PAL)

Component video (Y: green, PB: blue, PR: red) Y output level 1 Vp-p (75 Ω) P<sub>B</sub> output level 0.7 Vp-p (75 Ω)

PR output level 0.7 Vp-p (75 Ω)

For the United Kingdom and Russia

**RGB** 1 Vp-p (75 Ω) G output level B output level 0.7 Vp-p (75 Ω)

R output level 0.7 Vp-p (75 Ω)

Audio

Sampling frequency

CD 44.1 kHz MP3 44.1 kHz, 48 kHz **DVD (Linear Audio)** 48 kHz, 96 kHz **DVD-Audio** 192 kHz 16/20/24 bit linear Decodina Number of channels 5.1 ch (FL, FR, SL, SR, C, SW) Frequency response 20 Hz-20 kHz (+1, -2 dB)

Pick up

**Beam Source** Semiconductor Laser

Wavelength

CD/VCD 780 nm DVD 658 nm Wow and flutter Less than possible measurement data D/A converter Delta sigma DAC

HT900

Digital Input (for Dolby Digital)

Optical In

Sampling frequency 32 kHz, 44.1 kHz, 48 kHz

SPEAKER SECTION	
HT900 Front/Surround speakers SB-FS900	
Туре	2 Way, 2 Speaker, Bass-ref.
Speaker unit Full range	6.5 cm cone type, 6 $\Omega$
Super tweeter	PIEZO type
Input power	60 W (Music)
Output sound pressure level	79 dB/W (1.0 m)
Crossover frequency	10 kHz
Frequency range	85 Hz-25 kHz (-16 dB) 90 Hz-22 kHz (-10 dB)
<b>Dimensions (W×H×D)</b> (with stand)	250×1061.5×250 mm
Mass (with stand)	4.1 kg
HT900 Center speaker SB-PC701	
Туре	2 Way, 3 Speaker, Bass-ref.
Speaker unit	6.5
Full range Super tweeter	6.5 cm cone type $\times$ 2, 6 $\Omega$ PIEZO type
Input power (with filter)	220 W (Music)
Output sound pressure level	82 dB/W (1.0 m)
Crossover frequency	10 kHz
Frequency range	110 Hz-25 kHz (-16 dB) 130 Hz-22 kHz (-10 dB)
Dimensions (W×H×D) (with stand)	250×140×145 mm
Mass (with stand)	1.6 kg
HT700 Front speakers SB-FS700	
Туре	1 Way, 1 Speaker, Bass-ref.
Speaker unit Full range	6.5 cm cone type, 6 $\Omega$
Input power	60 W (Music)
Output sound pressure level	79 dB/W (1.0 m)
Frequency range	95 Hz-25 kHz (-16 dB)
<b>Dimensions (W×H×D)</b> (with stand)	110 Hz-22 kHz (-10 dB) 135×295×145 mm
Mass (with stand)	1.1 kg
HT700 Surround speakers SB-FS801A	
Туре	1 Way, 1 Speaker, Bass-ref.
Speaker unit	C.F. am constitute C.O.
Full range Input power	6.5 cm cone type, 6 Ω 60 W (Music)
Output sound pressure level	79 dB/W (1.0 m)
Frequency range	110 Hz-25 kHz (-16 dB)
Dimensions (W×H×D) (With stand)	130 Hz-22 kHz (-10 dB) 110×226×133 mm
Mass (With stand)	0.93 kg
HT700 Center speaker SB-PC700	
Туре	1 Way, 2 Speaker, Bass-ref.
Speaker unit	C.E. am. comp. http://o.c.o.o.o.o.o.o.o.o.o.o.o.o.o.o.o.o.o.
Full range Input power (with filter)	6.5 cm cone type $\times$ 2, 6 $\Omega$ 220 W (Music)
Output sound pressure level	82 dB/W (1.0 m)
Frequency range	110 Hz-25 kHz (-16 dB)
Dimensions (MVHVD) (Mith stand)	130 Hz-22 kHz (-10 dB) 250×140×145 mm
<b>Dimensions (W×H×D)</b> (With stand) <b>Mass</b> (With stand)	250× 140× 145 11111 1.6 kg
HT900 Active subwoofer SB-WA340	- 8
HT700 Active subwoofer SB-WA330	
Туре	1 Way, 1 Speaker, Bass-ref.
Speaker unit Woofer	17 cm cone type 4 Ω
Input power	17 on conc type 4 12
HT900	240 W (Music)
Output cound procesure level	200 W (Music)
Output sound pressure level Frequency range	80 dB/W (1.0 m) 40 Hz-220 Hz (-16 dB)
	45 Hz–180 Hz (–10 dB)
Dimensions (W×H×D)	160×450×424 mm
Mass	

HT700

# **GENERAL**

Power supply

AC 230-240 Y	V, 50 Hz
AC 230 \	V, 50 Hz
Main unit	25 W
Subwoofer	250 W
Main unit	25 W
Subwoofer	210 W
430×67×	429 mm
	4.4 kg
	4.3 kg
	AC 230 Main unit Subwoofer Main unit Subwoofer

0.7 W Power consumption in standby mode

12 kg 11.5 kg

- Note

  1. Specifications are subject to change without notice.
- Mass and dimensions are approximate.

  2. Total harmonic distortion is measured by the digital spectrum analyzer.

# **Troubleshooting guide**

Before requesting service, make the below checks. If you are in doubt about some of the check points, or if the remedies indicated in the chart do not solve the problem, consult your dealer for instructions.

Power Page

No power.	●Insert the AC mains lead and system cable securely.	10
The unit is automatically	●The unit was switched to standby by the sleep timer.	32
switched to the standby mode.		

# Operation

Operation		
No response when buttons	•Some operations may be prohibited by the disc.	_
pressed.	•The unit may not be operating properly due to lightning, static electricity or some other external	_
	factor.	
	Reset procedure:	
	Press [ $\circlearrowleft$ ] to switch the unit to the standby mode and then back to ON.	
	Alternatively, press [ $oldsymbol{\phi}$ ] to switch the unit to the standby mode, disconnect the AC mains lead,	
	and then reconnect it.	
No operations can be performed	Check that the batteries are installed correctly.	10
with the remote control.	•The batteries are depleted: Replace them with new ones.	10
	Point the remote control at the remote control sensor and operate.	_
Cannot switch on the television	Press [TV] first to operate the television.	_
with the remote control.		
	Condensation has formed: Wait 1 to 2 hours for it to evaporate.	
Play doesn't start (or stops	This unit cannot play discs other than the ones listed in these operating instructions.	5
immediately) when you press [▶] (play).	You can only play DVD-Video if their region number is the same or includes the same region	Cover
[ ] (play).	number as the unit or if DVD-Video is marked "ALL". Confirm the region number for the unit on	Cover
	the rear panel.	
	The disc may be dirty and may require cleaning.	5
	Ensure that the disc is installed with the label of the side to be played facing upwards.	14
	Check that the DVD-RAM has something recorded on it.	'-
Cannot select alternative	· ·	
	This function is dependent on software availability.  Try coloring from the dice's many if one is available.	14
languages.	•Try selecting from the disc's menu if one is available.	14
No menu play.	This function is dependent on software availability.	_
No subtitles.	•This function is dependent on software availability.	_
	•Subtitles are cleared from the television. Display the subtitles.	18
The position of the subtitles is	● Change the position of the subtitles with "Subtitle Position" in the GUI screen.	26
incorrect.		
Soundtrack and/or subtitle	This function is dependent on software availability.	_
language is not the one selected		
with the SETUP menus.		
Cannot change angle.	•This function is dependent on software availability. Even if a disc has a number of angles	_
	recorded, these angles may be recorded for specific scenes only.	
The SETUP menu cannot be	•Select "DVD/CD" as the source.	_
accessed.	Cancel all group, program and random play.	19
Cannot add markers.	You cannot add markers while playing a play list or if the disc's play time doesn't appear on the	_
Carmot add markers.	unit's display.	
There are already markers		
There are already markers.	•The unit reads and displays the markers added with a DVD video recorder. You can clear them but reappear when you switch the unit to standby, change the source, or change the disc.	
Marker numbers I added are	•The unit numbers markers by time so they change when you add and delete them.	-
different when I call them up.		
RAM	W	
Cannot select random or	You cannot select random or program play with some DVD-Video.	_
program play.		
Folders deeper than the eighth	•Folders deeper than the eighth layer are displayed as the eighth layer.	<b>—</b>
layer on a data CD are not		
displayed correctly.		
You have forgotten your ratings	•While stopped and "DVD/CD" is the source, press and hold [■] on the unit and [≥10] on the	_
password.	remote control for about 3 seconds until "Initialized" disappears from the television. Turn the unit	
Reset all the SETUP settings to	off and on again.	
Factory Preset.	All settings will return to the default values.	

# Sound

No sound.	●Check the connections.	6, 8
Distorted sound.	●Turn the volume up.	_
	●Turn muting off.	32
	•Switch off the unit, determine and correct the cause, then switch the unit on.  Causes include:	_
	<ul> <li>Shorting (bare wires touching) of positive and negative speaker wires.</li> <li>Using speakers with an impedance lower than that rated for this unit.</li> <li>Straining of the speakers through excessive volume or power.</li> </ul>	
	-Using the unit in a hot environment without proper ventilation.	
Humming heard during play.	•An AC mains lead or fluorescent light is near the subwoofer. Keep other appliances and cords away from the subwoofer.	

# **Picture**

Ficture		
Picture distorted.	●Some distortion is normal during SEARCH.	_
No picture.	<ul> <li>◆Check the connection.</li> <li>◆Make sure the television is on.</li> <li>◆Ensure the television's video input setting (e.g., VIDEO 1) is correct.</li> </ul>	9 — —
The picture shown on the television is not normal. (The sides of the picture are cut off, the picture is stretched horizontally, or black bands appear at the top and bottom of	<ul> <li>Go to Video in the SETUP menus, and change "TV Aspect" to suit your television.</li> <li>Use the television to change the aspect to the correct one.</li> <li>If your television cannot change the aspect when input is progressive, try changing 4:3 Aspect with the GUI screen.</li> <li>Ensure that the unit is connected directly to the television, and is not connected through a video cassette recorder.</li> </ul>	33 26 —
the screen.)	<ul> <li>Connect to the component video (480P) input terminals on a television compatible with this unit's copy guard system. You cannot view progressive video if your television is not compatible.</li> <li>Change the size with the variable zoom function.</li> </ul>	9 20
There is ghosting when progressive output is on.	<ul> <li>Press [PROGRESSIVE] so the indicator goes out. This problem is caused by the editing method or material used on DVD-Video, but should be corrected if you use interlace output.</li> </ul>	14
Picture quality is poor.	<ul> <li>Check the settings in the GUI screen's Picture Menu.</li> <li>For the United Kingdom and Russia</li> <li>When you are using the component video out terminals to connect to a television check to see if the "Video Out (AV/Component)" setting is set to "Video/Y PB PR" or "S-Video/Y PB PR" in the SETUP menu.</li> </ul>	26 33
The picture on the television disappears or stripes appear on the screen.	<ul> <li>Mobile telephone chargers can cause some disturbance.</li> <li>The location and orientation of the antenna are incorrect. If you are using an indoor antenna, change to an outdoor antenna.</li> <li>The television antenna wire is too close to the unit. Separate the antenna wire of the television from the unit.</li> </ul>	— 35 —
Menus not displayed correctly.	<ul> <li>Change the zoom ratio to "×1.00".</li> <li>With the GUI screen, change "Subtitle Position" to "0" or change "4:3 Aspect" to "Normal".</li> </ul>	20 26

# Listening to the radio

Noise is heard. "ST" flickers or doesn't light. Sound is distorted.	Adjust the position of the FM or AM antenna.     Use an outdoor antenna.	— 35
A beat sound is heard.	●Turn the television off or separate it from the unit.	<u> </u>
A low hum is heard during AM broadcasts.	Separate the antenna from other cables and cords.	_

**Troubleshooting guide** 

## **Unit displays**

The display is dark.	●Press [SHIFT]+[FL DISPLAY] to brighten the display.	32
"NO PLAY"	You inserted a disc the unit cannot play; insert one it can.      You inserted a blank DVD-RAM.	5 —
"NO DISC"	<ul> <li>You haven't inserted a disc; insert one.</li> <li>You haven't inserted the disc correctly; insert it correctly.</li> </ul>	— 14
"F61"	•Check and correct the speaker cord connections.  If this does not fix the problem, there is a power supply problem. Consult the dealer.	6, 8
"DVD U11"	●Disc is dirty. Wipe it clean.	5
"ERROR"	•Incorrect operation performed. Read the instructions and try again.	_
"DVD H□□" □□ stands for a number.	<ul> <li>◆Trouble may have occurred. The number following "H" depends on the status of the unit.</li> <li>Reset procedure:</li> <li>Press [₺] to switch the unit to the standby mode and then back to ON. Alternatively, press [₺] to switch the unit to the standby mode, disconnect the AC mains lead, and then reconnect it.</li> <li>•If the service numbers fail to clear, note the service number and contact a qualified service person.</li> </ul>	_

### **Television displays**

No on-screen display.	●Go to Display in the SETUP menus, and select "On" for "On-Screen Messages".	33
GUI screen not displayed or only partially displayed on the television.	•Press [▲, ▼] while the rightmost icon is highlighted to move them down.	24
The disc's menu is displayed in a different language.	Go to Disc in the SETUP menus, and select the preferred language for "Menus".	33
"Cannot display group xx, picture xx."	You are trying to display incompatible pictures.	_

# **Safety precautions**

# **Placement**

Set the unit up on an even surface away from direct sunlight, high temperatures, high humidity, and excessive vibration. These conditions can damage the cabinet and other components, thereby shortening the unit's service life.

Do not place heavy items on the unit.

# Voltage

Do not use high voltage power sources. This can overload the unit and cause a fire.

Do not use a DC power source. Check the source carefully when setting the unit up on a ship or other place where DC is used.

# **AC** mains lead protection

Ensure the AC mains lead is connected correctly and not damaged. Poor connection and lead damage can cause fire or electric shock. Do not pull, bend, or place heavy items on the lead.

Grasp the plug firmly when unplugging the lead. Pulling the AC mains lead can cause electric shock.

Do not handle the plug with wet hands. This can cause electric shock.

# Foreign matter

Do not let metal objects fall inside the unit. This can cause electric shock or malfunction.

Do not let liquids get into the unit. This can cause electric shock or malfunction. If this occurs, immediately disconnect the unit from the power supply and contact your dealer.

Do not spray insecticides onto or into the unit. They contain flammable gases which can ignite if sprayed into the unit.

## Service

Do not attempt to repair this unit by yourself. If sound is interrupted, indicators fail to light, smoke appears, or any other problem that is not covered in these instructions occurs, disconnect the AC mains lead and contact your dealer or an authorized service center. Electric shock or damage to the unit can occur if the unit is repaired, disassembled or reconstructed by unqualified persons.

Extend operating life by disconnecting the unit from the power source if it is not to be used for a long time.

# **Maintenance**

To clean this unit, wipe with a soft, dry cloth.

- •Never use alcohol, paint thinner or benzine to clean this unit.
- Before using chemically treated cloth, read the instructions that came with the cloth carefully.

Before moving the unit, ensure the disc trays are empty.

Failure to do so will risk severely damaging the discs and the unit.

# **Glossary**

#### Decoder

A decoder restores the coded audio signals on DVDs to normal. This is called decoding.

### **Dolby Digital**

This is a method of coding digital signals developed by Dolby Laboratories. Apart from stereo (2-channel) audio, these signals can also be multi-channel audio. A large amount of audio information can be recorded on one disc using this method.

### **DTS (Digital Theater Systems)**

This surround system is used in many movie theaters around the world. There is good separation between the channels, so realistic sound effects are possible.

### Dynamic range

Dynamic range is the difference between the lowest level of sound that can be heard above the noise of the equipment and the highest level of sound before distortion occurs.

#### Film and video

DVD-Videos are recorded using either film or video. Usually, film is recorded at 24 frames per second, the rate movies are filmed at, while video is recorded at 30 frames per second.

#### Frame still and field still

Frames are the still pictures that go together to make a moving picture. There are about 30 frames shown each second. One frame is made up of two fields. A regular television shows these fields one after the other to create frames.

A still is shown when you pause a moving picture. A frame still is made up of two alternating fields, so the picture may appear blurred, but overall quality is high.

A field still is not blurred, but it has only half the information of a frame still so picture quality is lower.

## Interlace and progressive output

NTSC, the video signal standard, has 480 interlaced (I) scan lines, whereas progressive scanning uses twice the number of scan lines. This is called 480P. The video signals output from this unit's COMPONENT VIDEO OUT terminals (Y,  $P_B$ ,  $P_B$ ) allow you to enjoy higher quality pictures than if the signals were output from the VIDEO OUT terminal or S-VIDEO OUT terminal.

### I/P/B

MPEG 2, the video compression standard adopted for use with DVD-Video, codes frames using these 3 picture types.

- I: Intra coded picture
  - This picture has the best quality and is the best to use when adjusting the picture.
- P: Predictive coded picture
  - This picture is calculated based on past I or P-pictures.
- B: Bidirectionally-predictive coded picture
  This picture is calculated by comparing past and future I and
  P-pictures so it has the lowest volume of information.

### Linear PCM (pulse code modulation)

These are uncompressed digital signals, similar to those found on CDs.

### Playback control (PBC)

If a Video CD has playback control, you can select scenes and information with menus.

### WMA, MP3, CD text and JPEG information

- Discs must conform to ISO9660 level 1 or 2 (except for extended formats)
- This unit is compatible with multi-session but if there are a lot of sessions it takes more time for play to start. Keep the number of sessions to a minimum to avoid this.
- The order tracks appear in the menus may differ to the order shown on your computer.

#### WMA

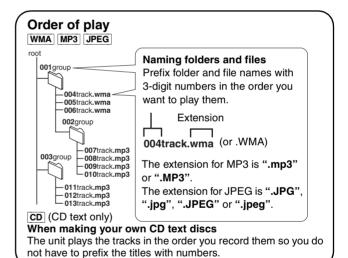
- Noise may occur when playing WMA files.
- $\bullet$  You cannot play WMA files that are copy protected.

#### MP3

- •This unit is not compatible with ID3 tags.
- If you play an MP3 track that includes still picture data, it will take some time before the music itself starts playing and the elapsed time will not be displayed during this time. Even after the track starts, the correct play time will not be displayed.

### JPEG

- •To view JPEG files on this unit:
- Take them on a digital camera that meets the DCF (Design rule for Camera File System) standard. Some digital cameras have functions that are not supported by the DCF standard like automatic picture rotation which may render a picture unviewable.
- Do not alter the files in any way or save them under a different
  name.
- This unit cannot display moving pictures, Motion JPEG and other such formats, still pictures other than JPEG (i.e. TIFF) or play associated sound.



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WMA is a compression format developed by Microsoft Corporation. It achieves the same sound quality as MP3 with a file size that is smaller than that of MP3.



MPEG Layer-3 audio decoding technology licensed from Fraunhofer IIS and Thomson multimedia.

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