

DVD Home Theater Sound System

Operating Instructions

The illustration shows SC-HT75.

Model No. SC-HT95 SC-HT75



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



AUDIO/VIDEO



As an ENERGY STAR[®] Partner, Panasonic has determined that this product meets the ENERGY STAR[®] guidelines for energy efficiency.

This unit responds to the region number information on DVD-Video. The unit can only play DVD-Video if the region number of the disc matches the region number of this unit. See page 5 for details.

For U.S.A. only

The servicenter list and warranty can be found on pages 38 and 39.



RQT6183-2P

CAUTION!

THIS PRODUCT UTILIZES A LASER.

USE OF CONTROLS OR ADJUSTMENTS OR PERFORM-ANCE OF PROCEDURES OTHER THAN THOSE SPECI-FIED 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, MOIS-TURE, 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 BOOK-CASE, 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 CUR-TAINS 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.

THE FOLLOWING APPLIES ONLY IN THE U.S.A. AND CANADA:

CAUTION:

TO PREVENT ELECTRIC SHOCK MATCH WIDE BLADE OF PLUG TO WIDE SLOT, FULLY INSERT.

For units with PX printed on the outer packaging THIS UNIT IS INTENDED FOR USE IN MODERATE CLIMATES.

For Latin America

THIS UNIT IS INTENDED FOR USE IN TROPICAL CLIMATES.

For areas except U.S.A. and Canada

CAUTION:

The AC voltage is different according to the area. Be sure to set the proper voltage in your area before use. (For details, please refer to page 9.)

DANGER	- VISIBLE AND INVISIBLE LASER RADIATION WHEN OPEN. AVOID DIRECT EXPOSURE TO BEAM. (FDA 21 CFR)
0/10/110/1	- VISIBLE AND INVISIBLE LASER RADIATION WHEN OPEN. AVOID EXPOSURE TO BEAM. (IEC60825-1)
ATTENTION	- RAYONNEMENT LASER VISIBLE ET INVISIBLE EN CAS D'OUVERTURE. EXPOSITION DANGEREUSE AU FAISCEAU.
ADVARSEL	 SYNLIG OG USYNLIG LASERSTRÅLING VED ÅBNING. UNDGÅ UDSÆTTELSE FOR STRÅLING.
VARO!	– AVATTAESSA OLET ALTTIINA NÄKYVÄÄ JA NÄKYMÄTÖN LASERSÄTEILYLLE. ÄLÄ KATSO SÄTEESEEN.
VARNING	- SYNLIG OCH OSYNLIG LASERSTRÅLNING NÄR DENNA DEL ÄR ÖPPNAD. BETRAKTA EJ STRÅLEN.
ADVARSEL	- SYNLIG OG USYNLIG LASERSTRÅLING NÅR DEKSEL ÅPNES. UNNGÅ EKSPONERING FOR STRÅLEN.
VORSICHT	 SICHTBARE UND UNSICHTBARE LASERSTRAHLUNG, WENN ABDECKUNG GEÖFFNET. NICHT DEM STRAHL AUSSETZEN.
注意	-打开时有可见及不可见激光辐射。避免激光束照射。
注意	- ここを開くと可視及び不可視のレーザー光が出ます。 ビームを直接見たり、触れたりしないでください。 RQLS0233

THE FOLLOWING APPLIES ONLY IN THE U.S.A.:

CAUTION:

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules.

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

- •Reorient or relocate the receiving antenna.
- •Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

Any unauthorized changes or modifications to this equipment would void the user's authority to operate this device.

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

THE FOLLOWING APPLIES ONLY IN THE U.S.A. AND CANADA:



AUTION: TO REDUCE THE RISK OF ELECTRIC SHOCK, DO NOT REMOVE SCREWS. NO USER-SERVICEABLE PARTS INSIDE. REFER SERVICING TO QUALIFIED SERVICE PERSONNEL.

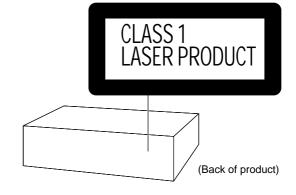


The lightning flash with arrowhead symbol, within an equilateral triangle, is intended to alert the user to the presence of uninsulated "dangerous voltage" within the product's enclosure that may be of sufficient magnitude to constitute a risk of electric shock to persons.



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

For areas except U.S.A. and Canada



Dear customer

Thank you for purchasing this product.

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

System	SC-HT95	SC-HT75
Main unit	SA-HT95	SA-HT75
Front speakers	SB-AFC286	SB-AFC95
Center speaker	SB-AFC286	SB-PC89
Surround speakers	SB-AFC95	SB-AFC95
Subwoofer	SB-W81	SB-W95

•These operating instructions are applicable to models SC-HT95 and SC-HT75.

Unless otherwise indicated, illustrations in these operating instructions are of SC-HT75.

• 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.

HT95: indicates features applicable to SC-HT95 only. HT75 : SC-HT75 only.

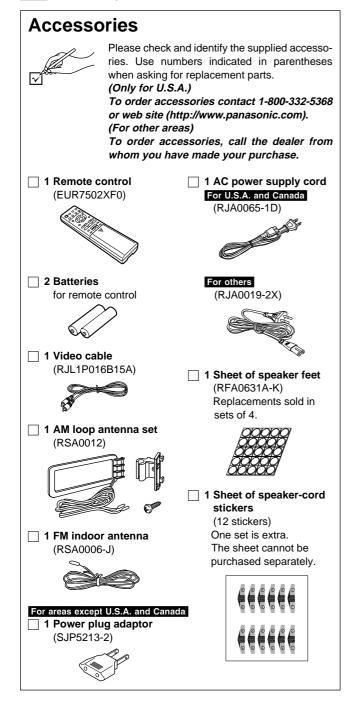


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IMPORTANT SAFETY INSTRUCTIONS

Read these operating instructions carefully before using the unit. Follow the safety instructions on the unit and the safety precautions listed below. Keep these operating instructions handy for future reference.

Safety

- Power source—Connect the unit to a power source of the type described in these instructions or as marked on the unit.
- 2. Polarization—The unit is equipped with a polarized power plug where one blade is wider than the other. This safety feature ensures that the plug fits into your household AC outlet only one way. If the plug doesn't fit one way, try reversing it. If the plug still doesn't fit, contact an electrician to replace the obsolete outlet. Do not attempt to defeat the safety purpose of the plug.
- 3. Power cord protection—Route the AC power supply cord so that it will not be walked on or pinched by items placed on or against it. Never take hold of the plug or cord with wet hands. Always grasp the plug body firmly when connecting and disconnecting it.
- Overloading—When connecting the AC power supply cord, be careful not to overload the household AC outlet, extension cord, or outlet from any other device as this can result in fire or electric shock.
- 5. Nonuse periods—Turn the unit off when it is not in use. Unplug the unit from the household AC outlet if it is not to be used for a long time. Unplug the unit during lightning storms.
- 6. Attachments and accessories—Use only the attachments and accessories recommended in these operating instructions.

Installation

Placement

- Ventilation—Situate the unit so that it receives proper ventilation. Do not install in a confined space such as a bookcase or cabinet. Allow at least 10 cm (4 inches) clearance from the rear of the unit. To prevent the risk of electric shock or fire due to overheating ensure curtains and other materials do not obstruct the unit's ventilation.
- Foreign material—Ensure objects and liquids do not get into the unit. Avoid exposing the unit to excessive smoke, dust, mechanical vibration, and shock.
- **3. Magnetism**—Situate the unit away from equipment and devices that generate strong magnetic fields.
- 4. Stacking-Do not place heavy objects on top of this unit.
- 5. Surface—Place the unit on a flat, level surface.
- 6. Carts and stands—Use the unit only with carts and stands recommended by the manufacturer. Move carts with care. Sudden stops, excessive force, and uneven surfaces can cause carts to overturn.



Wall and ceiling mounting—Do not mount the unit on walls or ceilings unless specified in the instructions.

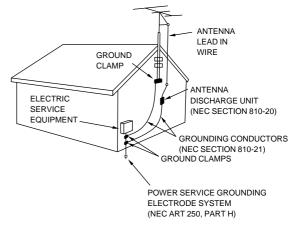
Environment

- 1. Water and moisture—Do not use the unit near water, such as near a bathtub or swimming pool. Avoid damp basements.
- **2. Heat**—Situate the unit away from heat sources, such as radiators.

Do not situate where temperatures fall below 5°C (41°F) or rise above 35°C (95°F).

Item 2 in "Safety" applies only in the U.S.A. and Canada.

- 3. Power lines—Take care when setting up an outdoor antenna that it is not near overhead power lines, electric lights, or electrical circuits, and that there is no danger of the antenna falling on power lines, electric lights, or electrical circuits. When installing an outdoor antenna, take extreme care not to touch such power lines or circuits, as contact with them can be fatal.
- 4. Outdoor antenna grounding—If you connect an outdoor antenna, ground the antenna system to protect against voltage surges and built-up static charges. Section 810 of the National Electrical Code, ANSI/NFPA No. 70-1990, provides information about grounding of the mast and supporting structure, grounding of the lead-in wire to an antenna discharge unit, size of grounding conductors, location of antenna-discharge unit, connection to grounding electrodes, and requirements for the grounding electrode. Refer to this diagram.



NEC-NATIONAL ELECTRICAL CODE

Maintenance

(See page 35 for details.)

Unplug the unit from the household AC outlet before cleaning. Clean with a damp cloth.

Do not use abrasive pads, scouring powders, or solvents.

Service

- Damage requiring service—The unit should be serviced by qualified service personnel if:
 - (a) The AC power supply cord or the plug has been damaged; or
 - (b) Objects or liquids have gotten into the unit; or
 - (c) The unit has been exposed to rain; or
 - (d) The unit does not operate normally or exhibits a marked change in performance; or
 - (e) The unit has been dropped or the cabinet damaged.
- 2. Servicing—Do not attempt to service the unit beyond that described in these operating instructions. Refer all other servicing to authorized servicing personnel.
- 3. Replacement parts—When parts need replacing ensure the servicer uses parts specified by the manufacturer or parts that have the same characteristics as the original parts. Unauthorized substitutes may result in fire, electric shock, or other hazards.
- Safety check—After repairs or service, ask the servicer to perform safety checks to confirm that the unit is in proper working condition.

Disc information

Discs that can be played

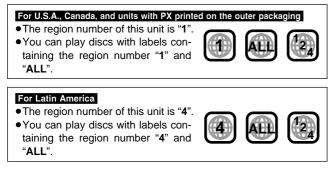
Disc type	Logo	Indication used in instructions
DVD-Audio		DVD-A
DVD-Video		DVD-V
	VIDEO	
DVD-R	R R4.7	
Audio CD		CD (Including CD-R/RW and discs recorded with MP3)
Video CD		VCD

Discs that cannot be played

PAL discs (the audio on DVD-Audio can be played), DVD-ROM, DVD-RAM, CD-ROM, CDV, CD-G, +RW, DVD-RW, CVD, SVCD, SACD, Divx Video Discs and Photo CD.

Region Management Information (DVD-Video only)

This unit responds to the Region Management Information recorded on DVD-Video. You cannot play the disc if the region number on the DVD-Video does not correspond to the region number on the unit. Read the disc's instructions carefully.



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. Read the disc's instructions carefully.

CD-R and CD-RW discs

This unit can play CD-DA (digital audio) and video CD format audio CD-R and CD-RW that have been finalized (a process that enables CD-R/CD-RW players to play audio CD-R and CD-RW) upon completion of recording.

It may not be able to play some CD-R or CD-RW due to the condition of the recording.

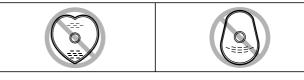
DVD-R discs

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

It may not be possible to play these discs in all cases due to the type of disc or condition of the recording.

Disc handling

Do not use irregularly shaped discs, such as heart-shaped. (These can damage the unit.)



How to hold a disc

Do not touch the recorded surface.



■ If the surface is dirty

Wipe it with a damp cloth and then wipe dry.



If the disc is brought from a cold to a warm environment, moisture may form on the disc

Wipe with a soft, dry, lint-free cloth before using the disc.

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.

Do not place or store discs in the following places

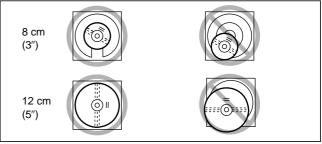
- Locations exposed to direct sunlight
- Humid or dusty locations
- •Locations directly exposed to a heat vent or heating appliance

To prevent damage

Load only 1 disc per tray.



•Load discs as shown in figure.



- An adaptor is not needed with 8 cm (3") discs (singles).
- •Set the system on a flat, level surface.
- Do not set it on top of magazines, inclined surfaces, etc.
- Do not move the system while trays are opening/closing, or when loaded.
- Do not put anything except discs in trays.
- •Do not use cleaning discs or discs which are badly warped or cracked.

Simple setup

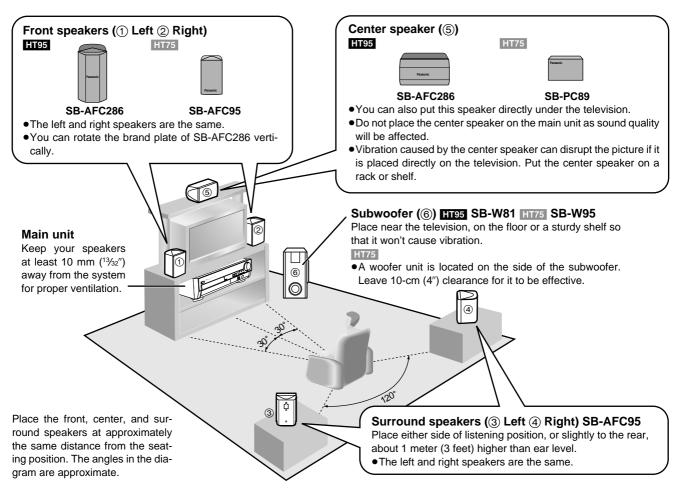
Refer also to "Speaker setup", a separate guide included with these operating instructions.

STEP 1 Locating and connecting the speakers

Use only supplied speakers

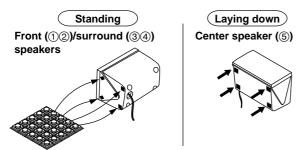
Using other speakers can damage the unit and sound quality will be negatively affected.

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.



Attaching the speaker feet

Attach these speaker feet to prevent vibration causing the speakers to move or fall over.



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.

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.

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.

Speaker cords

Attach the stickers to the speaker cords. • Attach the numbered stickers to the end of the speaker cords so the numbers match the positions of the speaker ers shown in the diagram. • About 10 cm (4")

- •Connect the cords to the terminals of same color so the numbers on the stickers match the numbers under the terminals.
- •Never short-circuit positive (+) and negative (-) speaker wires.
- •Be sure to connect only positive (red or gray) wires to positive (+) terminals and negative (black or gray with blue stripe) wires to negative (-) terminals.

Incorrect connection can damage the speakers.

- •After you have completed setup and connection, wind the excess cord and keep together with string.
- •The speaker nets cannot be removed.

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 microphone or 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.

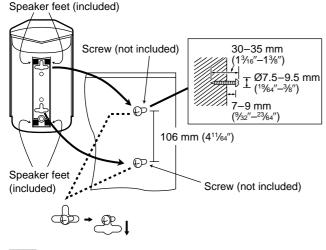
Attaching to a wall

Front and surround speakers can be attached to a wall.

Attach four speaker feet to each speaker, ensuring they do not cover the holes.

Set the speaker onto screws and slide through bracket to lock into position.

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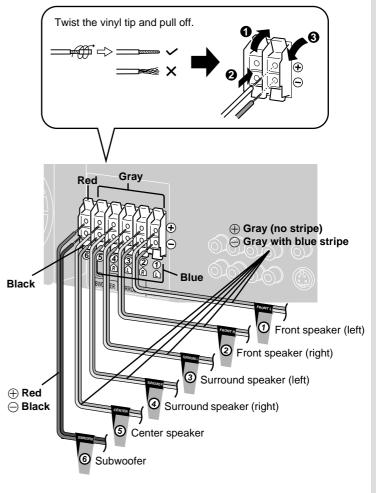


HT75

The method for attaching speakers to a wall is the same except that there is only one bracket.

Note

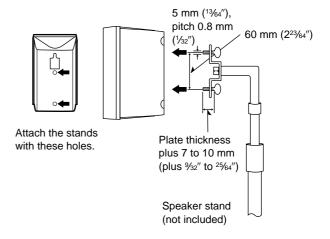
The wall or pillar on which the speakers are to be attached should be capable of supporting 10 kg (22 lb.) for SB-AFC286 and 5 kg (11 lb.) for SB-AFC95 per screw.



Attaching to speaker stands

Ensure the following conditions are met when you purchase your speaker stands.

- 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 (22 lb.) for SB-AFC286 and 5 kg (11 lb.) for SB-AFC95.
- •The stands must be stable even if the speakers are in a high position.

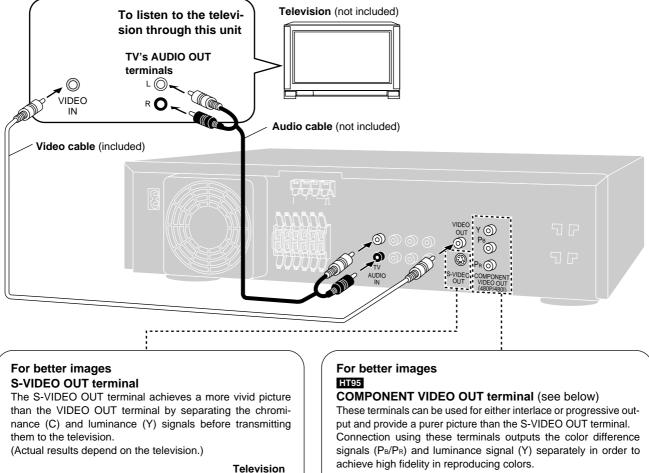


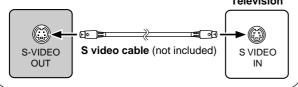
Television

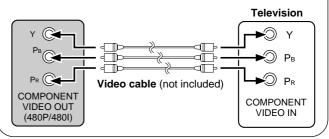
The illustration shows SC-HT95.

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.







HT95

COMPONENT VIDEO OUT terminal

- •The description of the component video input terminals depends on the television or monitor (e.g. Y/P_B/P_R, Y/B-Y/R-Y, Y/CB/CR). Connect to terminals of the same color.
- •After making this connection, change the black level for a better picture (→ page 28, Video—Black Level Control).

To enjoy progressive video

- 1. Connect to the component video (480p) input terminals on a television compatible with this unit's copy guard system.
- 2. Press [PROGRESSIVE OUT] on the front panel so the indicator lights (⇒ page 12).

NOTE

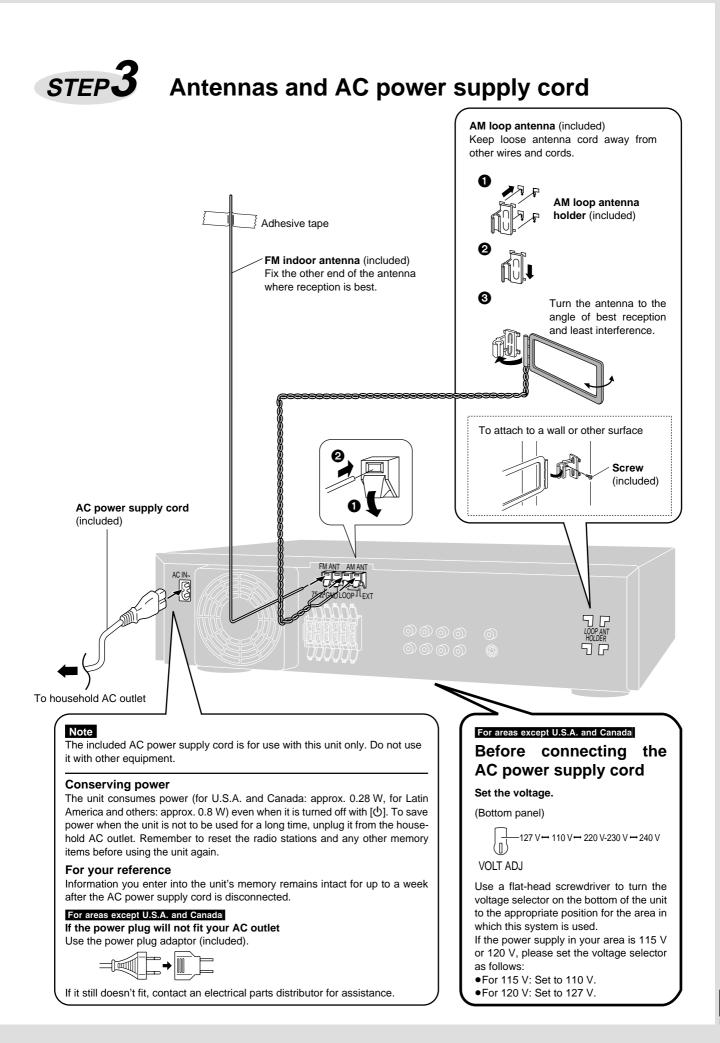
This unit does not output video signals from the VIDEO OUT and S-VIDEO OUT terminals when the "PROGRESSIVE OUT" indicator is on.

Note

- The screen may shift off center when using progressive output. Adjust the position of the screen if this occurs (- page 21, Video—Horizontal position).
- ·Video will not be displayed correctly if you connect to a television that is incompatible with this unit's copy guard system.
- •This unit does not output video signals from the VIDEO OUT and S-VIDEO OUT terminals when the "PROGRESSIVE OUT" indicator is on.

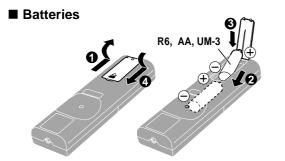
For your reference

All televisions manufactured by Panasonic and that have 480p input terminals are compatible. Consult the manufacturer if you have another brand of television.



Simple setup

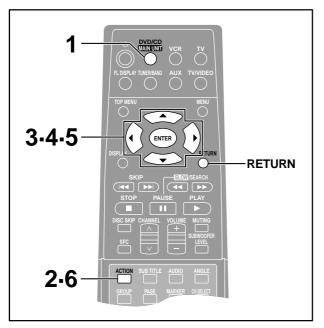
The remote control



Insert so the poles (+ and -) match those in the remote control.
Do not use rechargeable type batteries.



Selecting TV screen type



Remote control only

Change the setting to suit your television.

The menu language is set to English, but you can change it to French or Spanish (→ page 28, Display—Menu Language). English is used in the examples.

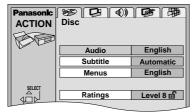
Preparation

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

1 Press [DVD/CD] to turn on the unit.

The unit comes on automatically and "DVD/CD" is selected as the source.

2 Press [ACTION] to show the menus.



Do not;

- 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 (23 feet) directly in front of the unit.

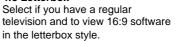
- **3** Press $[\blacktriangleleft, \blacktriangleright]$ to select the "Video" tab.
- 4 Press [▲, ▼] to select "TV Aspect" and press [ENTER].
- 5 Press [▲, ▼] to select the item and press [ENTER].

•4:3 Pan&Scan (Factory preset) Select if you have a regular television and to view 16:9 software in the pan and scan style.



16:9 software prohibited from being shown in the pan and scan style will appear in the letterbox style despite the setting here.

•4:3 Letterbox





●16:9

Select if you have a widescreen (16:9) television. Use the television's screen modes to change the way the picture is shown.

6 Press [ACTION] to end the settings.

To return to the previous screen Press [RETURN].

HT95

When viewing video made for a standard 4:3 aspect television on a wide 16:9 aspect television using progressive output

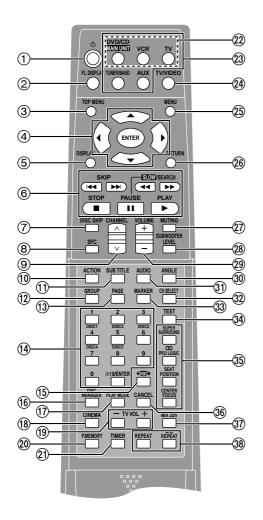
This unit shows the correct aspect when playing wide 16:9 aspect software, but when showing standard 4:3 aspect software, the picture is stretched horizontally to fill the screen.

- If your television can change the aspect when input is progressive
- Use the television to change the aspect to the correct one. • If your television cannot change the aspect when input is progressive

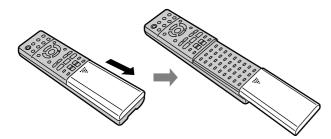
Press [PROGRESSIVE OUT] so the "PROGRESSIVE OUT" indicator goes out. Output will now be interlace.

NOTE

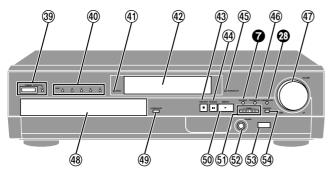
This unit does not output video signals from the VIDEO OUT and S-VIDEO OUT terminals when the "PROGRESSIVE OUT" indicator is on.



How to open the remote control



HT95



Buttons 0 and 0 function the same as the controls on the remote control.

Remote control

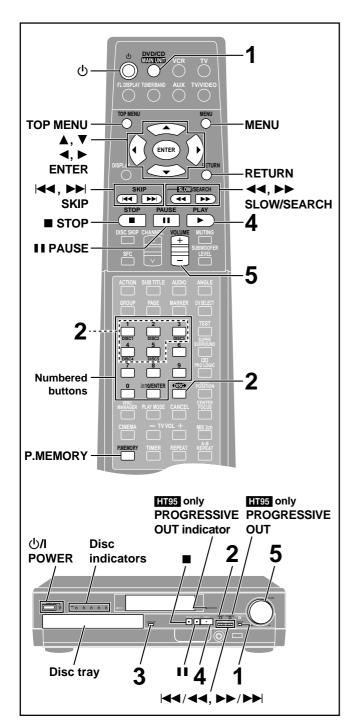
	Page
1	Power button [[]
2	FL display button [FL DISPLAY] 27
	Top menu button [TOP MENU] 12
(<u>4</u>)	Cursor buttons [▲, ▼, ⊲, ▶]/Enter button [ENTER] 10
	Display button [DISPLAY] 19
	Basic operation buttons
$\tilde{(7)}$	Disc skip button [DISC SKIP] 14
	Sound field control button [SFC] 25
	Channel select buttons [A, V, CHANNEL] 23, 30
	Initial settings button [ACTION] 10, 29
	Subtitle button [SUB TITLE]
(12)	Group button [GROUP]
(13)	Page button [PAGE] 15
(14)	Numbered buttons (1–9, 0, ≧10/ENTER) 12
15	Disc button [DISC] 12
(16)	Disc manager button [DISC MANAGER] 15
17	Play mode button [PLAY MODE] 17
	Cinema button [CINEMA] 14
(19)	TV volume buttons [- TV VOL +] 30
	Position memory button [P.MEMORY] 13
21	Timer button [TIMER] 27
22	Equipment buttons and indicators
	Select the equipment you want to operate.
	 Press [DVD/CD] to operate this unit.
	 Press [VCR] to operate a video cassette recorder.
	 Press [TV] to operate a television.
	These buttons light for a few seconds to indicate the remote
	control mode.
23	Input select buttons
	[DVD/CD, MAIN UNIT, VCR, TV, TUNER/BAND, AUX]
	Pressing [DVD/CD] or [TUNER/BAND] also turns the unit on.
	[TUNER/BAND] also switches radio bands.
24)	TV/Video button [TV/VIDEO] 30
25	Menu button [MENU] 12
\sim	Return button [RETURN] 10, 29
	Muting button [MUTING] 27
28	Subwoofer level button [SUBWOOFER LEVEL] 26
29	Volume buttons [+, -, VOLUME] 12, 22
	Angle button [ANGLE] 18
	Audio button [AUDIO] 18
	Speaker channel select button [CH SELECT] 25
	Marker button [MARKER] 14
	Test button [TEST] 25
	Sound field and effect buttons 25, 26
	Cancel button [CANCEL] 14
	Mix 2ch button [MIX 2ch] 25
(38)	Repeat buttons [REPEAT, A-B REPEAT] 16

Main unit

39	Standby/on switch [POWER] 12
-	Press to switch the unit from on to standby mode or vice versa.
	In standby mode, the unit is still consuming a small amount of power.
	Standby/on indicator [心/I]
	When the unit is connected to the AC mains supply, this indicator
	lights red in standby mode and lights green when the unit is turned on.
(40)	
(41)	Wake timer indicator [WAKE] 27
42	Display
43	Stop, tune mode button [■, TUNE MODE] 12, 22
44	Pause, FM mode button [II, FM MODE] 12, 22
45	HT95 Progressive out indicator [PROGRESSIVE OUT] 12
46	HT95 Progressive out button [PROGRESSIVE OUT] 12
	HT75 Sound field control button [SFC] 25
(47)	Volume control [VOLUME, DOWN, UP] 12, 22
48	Disc tray 12
4 9	Open/close button [▲ OPEN/CLOSE] 12
50	Play, memory button [▶, MEMORY] 12, 23
51	Skip/search, tuning buttons
	[Idd/dd, ►►/►►, ∨ TUNING ∧] 13, 22
52	Headphone jack [PHONES] 27
53	Remote control signal sensor
54)	Input select button [SELECTOR] 12

11 RQT6183

Discs—Basic play



DVD-A DVD-V CD VCD

Preparation

- •Turn on the television and select the appropriate video input on the television to suit the connections for the player.
- Press [()/I POWER] to turn on the unit.

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

Each time you press the button: $DVD/CD \rightarrow FM \rightarrow AM \rightarrow TV \rightarrow VCR \rightarrow AUX$

Remote control: Press [DVD/CD].

HT95

For progressive output:

Press [PROGRESSIVE OUT] so the indicator lights.

NOTE

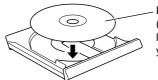
This unit does not output video signals from the VIDEO OUT and S-VIDEO OUT terminals when the "PROGRESSIVE OUT" indicator is on.

2 Press [DISC SKIP] to select a tray. The indicator lights. Play starts if a disc is in the tray. (One touch play)

Remote control: Press [DISC] and then press [1]-[5] corresponding to the required tray.

3 Press [A] to open the disc tray and insert a disc.

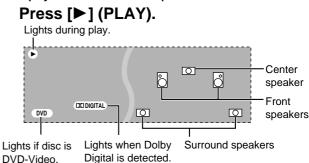
Press again to close and start play.



Label must face upward. (With double-sided discs, load so the label for the side you want to play faces up.)

Repeat steps 2 and 3 to insert other discs.

4 If play doesn't start after step 3



5 Adjust the volume.

To stop play

Press [■] (→ page 13, Resume function).

To pause play

Press [11] during play. Press [▶] (PLAY) to restart play.

Note

- ●If "**○**" appears on the television
- The operation is prohibited by the unit or disc.
- •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.
- Volume may be lower when playing DVDs than when playing other discs or during television broadcasts.

If you turn the volume up, be sure to reduce the volume again before playing other sources so that a sudden increase in output does not occur.

When a menu appears on the television

DVD-A DVD-V VCD

Remote control only

Press the numbered buttons to select an item.

To select a 2-digit number

- Example: To select item 23, press [\geq 10/ENTER] \Rightarrow [2] \Rightarrow [3].
- •When playing DVDs, you can also use $[\blacktriangle, \nabla, \triangleleft, \blacktriangleright]$ to select items. Press [ENTER] to confirm your selection.

Play of the selected item now begins.

Other buttons used to operate menus

Read the disc's instructions for further details about operation.

- [►►] : Shows the next menu.
- [I Shows the previous menu.

[RETURN]: Shows the menu screen. VCD

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

Disc operations

Playing MP3

CD

Discs recorded using MP3 differ to CDs in the following ways. • Structure of the disc (example)



Starting play from a selected chapter

Press the numbered buttons and press [ENTER]. Example: Chapter 23: $[2] \Rightarrow [3] \Rightarrow [ENTER]$ (Pressing [≥10/ENTER] is unnecessary.)

Repeat play

You can use chapter repeat or title repeat. • Program play, random play and disc manager You cannot use program play, random play or disc manager.

Note

- 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.
- This unit is not compatible with ID3 tags.
- •This unit is not compatible with files with a sampling rate of 32 kHz.

Refer to the glossary on page 36 for more information about MP3.

Resume function

DVD-A DVD-V CD VCD

(When the elapsed play time is displayed)

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

RESUME

Press [>] (PLAY) to start play from that position. (When playing DVD-Video ➡ Chapter Preview below)

- •The position is cleared when:
 - -The unit is turned off.
 - -The disc is changed or removed.
 - -A source other than DVD/CD is selected.

● Press [■] to clear the position.

Position Memory function DVD-V CD VCD

During play Press [P.MEMORY] to memorize a position.

The message "Position memorized" appears on the television. This position is saved if you turn the unit off or change the source. When you turn the unit on or reselect DVD/CD, "RESUME" lights on the display.

Press [▶] (PLAY) to start play from the memorized position. The position is cleared.

(When playing DVD-Video ➡ Chapter Preview below)

Chapter Preview DVD-V

The message "Press PLAY to Preview Chapters" appears immediately after you press [▶] (PLAY).

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 [I] or [P.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].

Skipping chapters or tracks

DVD-A DVD-V CD VCD

Press [|◀◀] or [▶▶].

- Each press increases the number of skips.
- ●Press [I ◄ / ◄ , ► ► / ► ►] on the main unit.

Fast forward and rewind—SEARCH

DVD-A DVD-V CD VCD

During play

Press [◀◀] or [▶▶]. ● Press and hold [I◀◀/◀◀, ►►/►►] on the main unit.

 Audio will be heard during the first forward search speed. You can turn this audio off if you want to (⇒ page 28, Audio—Audio during Search).

Slow-motion play

DVD-A DVD-V VCD

While paused

Press $[\triangleleft]$ or $[\triangleright]$.

● Press and hold [| ◀◀ / ◀◀, ▶▶ / ▶▶] on the main unit.

Frame-by-frame viewing

DVD-A DVD-V VCD

Remote control only

While paused

Press [◀] or [▶].

The frame changes each time you press the button.

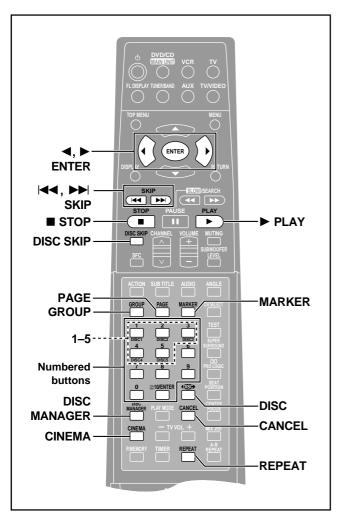
- •The frames change in succession if you press and hold the button.
- Pressing [11] also activates forward frame-by-frame.

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 frameby-frame and slow-motion.
- •Frame-by-frame and slow-motion only work on the moving picture parts of DVD-Audio.

When playing Video CDs with playback control

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



Starting play from a selected track

CD VCD

Remote control only

- **1** Press [DISC].
- 2 Press [1]–[5] to select a disc.

Wait for the disc to change and play to start **Press the numbered buttons to select the track.** To select a 2-digit number

Example: To select track 23, press [\geq 10/ENTER] \Rightarrow [2] \Rightarrow [3].

Play starts from the selected item.

Note

3

This works only when stopped with some discs.

Disc skip

DVD-A DVD-V CD VCD

Press [DISC SKIP].

Play starts from the beginning of the disc in the next tray. You will skip to tray 1 when the current tray is 5.

Note

[DISC SKIP] does not work during program and random play or while the disc manager is on.

Cinema

DVD-A DVD-V VCD

Remote control only

You can change the picture quality for movie viewing.

Press [CINEMA].



Each time you press the button: C: Mellows images and enhances detail in dark scenes.

↓ **N:** Normal mode (Factory preset)

For your reference

You can make finer adjustments to the picture if desired (→ page 21, Digital picture mode—User mode).

Marking places to play again— MARKER

DVD-A DVD-V CD VCD

(When the elapsed play time is displayed)

Remote control only

You can mark up to 5 points on a disc to return to later.

1 During play

Press [MARKER].



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

To select another marker, press $[\blacktriangleleft, \blacktriangleright]$.

To play from a marked position

Press [◀, ▶] to select a marker number and press [ENTER].

To clear a marker

Press [◀, ▶] to select a marker number and press [CANCEL].

Note

- •Some subtitles may fail to appear around the marker.
- All the markers are cleared when:
 - -The unit is turned off.
 - -The disc is changed or removed.
 - -A source other than DVD/CD is selected.

Using the disc manager

CD VCD

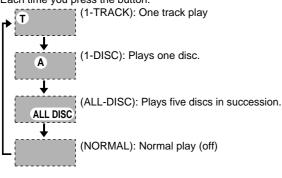
Remote control only

The disc manager allows you to choose one track or disc to play or to play all five discs in succession.

1 While stopped

Press [DISC MANAGER] to select the desired method.

Each time you press the button:



2 Select the disc and track.

- When selecting "1-DISC", press [DISC] and [1]–[5].
 When selecting "1-TRACK", press the numbered buttons.
- To select a 2-digit number Example: To select track 23: press [≧10/ENTER] → [2] → [3].
- You can also select the track by pressing [\blacksquare and [$\blacktriangleright \blacksquare$].

3 Press [▶] (PLAY).

To cancel disc manager Press [■].

To play a track or disc repeatedly

Press [REPEAT] during disc manager play.

Note

- •You cannot use the disc manager while "RANDOM" or "PRGM" are on.
- •When playing video CDs with playback control in the "A" or "ALL DISC" mode, you can play the disc without having to operate the disc's menus.
- The disc manager skips any DVD and MP3 discs that are loaded.

Selecting groups to play

DVD-A

Remote control only

The tracks on DVD-Audio are divided into groups. How these groups are played differs with the disc so read the instructions that came with the disc for further details.

1 Press [GROUP].

The group number changes each time you press the button.

2 Press [ENTER].

3 Press the numbered buttons to select the track number and press [ENTER]. The selected group and track begin to play.

Playing all the groups in succession (= page 17, All group play)

Playing bonus groups

Some discs contain bonus groups. To enjoy these groups you may have to enter a password. Refer to the disc's jacket.

- 1. Press [GROUP] to select the bonus group and press [ENTER].
- Enter the 4-digit password with the numbered buttons and press [ENTER].
 - If you enter the wrong password, you can erase a digit by pressing [CANCEL].
- 3. Press the numbered buttons to select a track and press [ENTER].

•The password is cleared when:

- -The unit is turned off.
- -The disc is changed or removed.
- -A source other than DVD/CD is selected.

Selecting still pictures—Page Skip

DVD-A

Remote control only

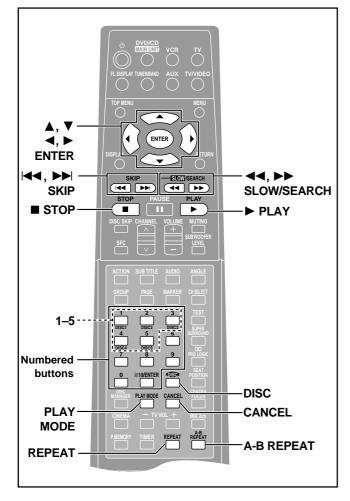
During play

Press [PAGE].

The page changes each time you press the button.



1 1



DVD-A DVD-V (When the elapsed play time is displayed)

Remote control only

A-B repeat play

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

1

During play

C A ★

Press [A-B REPEAT] at the starting point (A).



2 Press [A-B REPEAT] at the finishing point (B).



A-B repeat starts.

To cancel Press [A-B REPEAT] until "

" is displayed.

Note

- •Some subtitles recorded around point A or B may fail to appear.
- •The unit automatically determines the end of a title/track as point B when the end of the title/track is reached.

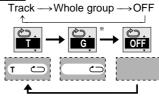
Repeat play

During play

Press [REPEAT].

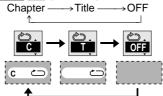
Each time you press the button:

DVD-A

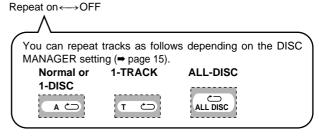


* During All group, Program, or Random play mode, "A" is displayed instead of "G".

DVD-V CD (MP3 disc)



CD VCD



If the Video CD has playback control

1. Press [■].

- Press the numbered buttons to select a track to start play (
 page 14).
- 3. Press [REPEAT] (⇒ above).

Note

You cannot use repeat play to repeat an entire DVD-Video or an entire MP3 disc.

■ To repeat only your favorite tracks DVD-A CD VCD

Start program play (→ page 17) and press [REPEAT] to display the repeat mode you like.

All group play/Program play/Random play/All disc random play

DVD-A

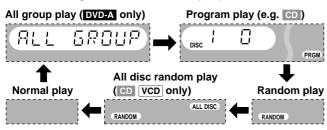
CD VCD (There is no on-screen display.)

Remote control only

While stopped

Press [PLAY MODE] to select the play mode.

The mode changes as follows each time you press the button.



After selecting the mode, follow the steps for the mode.

DVD-A If you select bonus groups, you will have to enter a 4-digit password (→ page 15).

All group play DV	D-A
-------------------	-----

To play all the groups in succession



Press [▶] (PLAY).

Random play

To play tracks on the current disc randomly e.g. DVD-A (three groups)



DVD-A

Press $[\blacktriangleleft, \triangleright]$ to select a group and press [ENTER].

•You can select more than one group.

2 Press [▶] (PLAY).

Play now begins in random order.

To clear a group DVD-A

Press $[\blacktriangleleft, \blacktriangleright]$ to select the group you want to clear, then press [ENTER].

All disc random play CD VCD

To play tracks on all discs randomly

Press [▶] (PLAY).

Play now begins in random order.DVD and MP3 discs are skipped during all disc random play.

Program play

To play a maximum of 24 tracks in a programmed order DVD-A Select tracks from the disc in the play position. CD VCD Select tracks from any disc.



DVD-A

Press the numbered buttons to select a group.

CD VCD

- Press [DISC] and [1]–[5] to select the disc.
- 2 Press the numbered buttons to select a track.
 - Repeat steps 1 and 2 to program other tracks.

• CD VCD

- Step 1 is unnecessary when programming tracks on the same disc. • DVD-A To select a track using the cursor buttons
- Press [ENTER] and $[\blacktriangle, \nabla]$ to select a group or track, then press [ENTER] again to register the number.

All the tracks in the selected group are selected when you select "ALL".

3 Press [▶] (PLAY).

Play now begins in the programmed sequence.

When play is stopped and the program contents are shown on the display, you can also do the following.

- To add tracks
- Repeat steps 1 and 2.
- •To check program contents
- Press [I ◄] or [▶ ►].
- •To clear tracks

Press [CANCEL] to clear the last track in the program, or press [I◄◀] or [▶►I] to select a track and press [CANCEL].

To clear the whole program
 Press [■] so "CLEAR" is displayed. (If "CLEAR" is not displayed, start and stop play, then press [■] again.)

DVD-A (Follow the on-screen instructions.)

To add or change groups or tracks

Press $[\blacktriangle, \forall]$ to select an available item, then repeat steps 1 and 2. To move to the page before or after the one shown Press $[\triangleleft \triangleleft]$ or $[\triangleright \triangleright]$.

To clear a track

- 1. Select the item you want to clear.
- 2. Select "Clear" with $[\blacktriangle, \nabla, \triangleleft, \blacktriangleright]$ and press [ENTER].
- To clear the whole program

Select "Clear all" with $[\blacktriangle, \nabla, \triangleleft, \blacktriangleright]$ and press [ENTER].

Note

Groups, discs or tracks the unit cannot find can be programmed but are canceled during play. This is also the case if you program DVD-Audio, DVD-Video and MP3 discs.

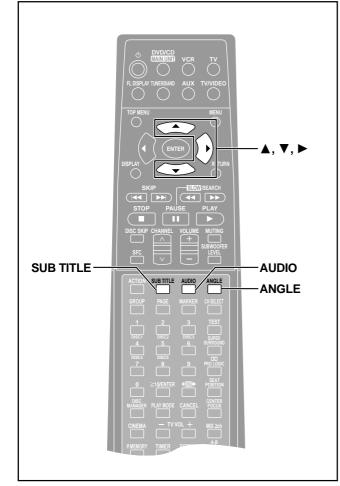
Normal play

The play mode is canceled (normal play mode is restored) when: -The unit is turned off.

- -The disc is changed or removed.
- -A source other than DVD/CD is selected.

CD VCD

The program is retained in memory.



DVD-A DVD-V

Remote control only

Some DVDs have multiple soundtracks, subtitle languages and camera angles, and you can change these during play.

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

Soundtracks

During play Press [AUDIO].

The number changes each time you press the button.



Soundtrack playing

- •Play restarts from the beginning of the soundtrack when changing DVD-Audio soundtracks that are accompanied by still pictures.
- Even if a second soundtrack isn't recorded on a DVD-Audio, two soundtrack numbers will normally be shown when you press [AUDIO]. The soundtrack currently playing is number 1.
- •You can also use this button to turn the vocals on and off on karaoke discs. Read the disc's instructions for details.
- Refer to A and B on page 20 for language abbreviations and audio signal type details.

VCD

Subtitles

During play

Press [SUB TITLE].

The number changes each time you press the button.



- In some cases, the subtitle language is not changed to the selected one immediately.
- If the subtitles overlap closed captions recorded on discs, turn the subtitles off.
- Refer to A on page 20 for language abbreviations.

To clear/display the subtitles

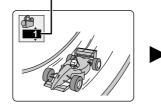
- 1. Press [SUB TITLE].
- Press [▶].
- 3. Press [▲, ▼] to select "OFF" or "ON".

Angles

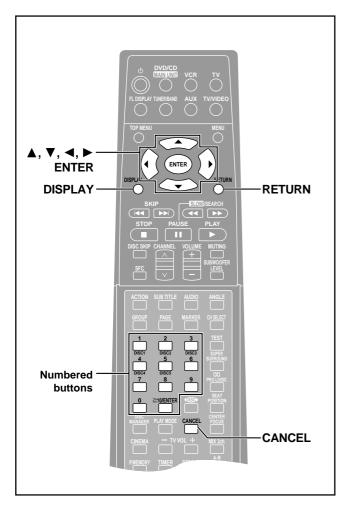
"ANGLE" lights on the unit's display when this is available. **During play**

Press [ANGLE].

The number changes each time you press the button.







DVD-A DVD-V

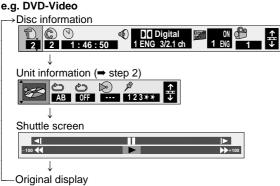
Remote control only

On-Screen Menu Icons 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:

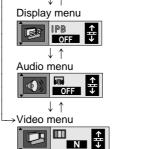


• The screens depend on disc contents.

2 Unit information only

While the leftmost icon is highlighted

Press [▲, ▼] to select the menu. Each time you press the button: e.g. DVD-Video → Play menu → Play menu ↓ ↑



- lisc opera
- **3** Press $[\blacktriangleleft, \blacktriangleright]$ to select the item.

4 Press $[\blacktriangle, \triangledown]$ to select the setting.

- •Items with " \blacktriangle " or " \blacktriangledown " above and below can be changed by $[\blacktriangle, \blacktriangledown]$.
- 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 menus

- 1. Press $[\blacktriangleleft, \blacktriangleright]$ to select the rightmost icon.
- Press [▲, ▼] to move the menus. (There are 5 positions.)

Disc information

e.g. DVD-Video

1 0				
lcon	Content			
G 2	DVD-A Group number			
D . 2 .	DVD-A Track number DVD-V Title number			
©2	DVD-V Chapter number			
	Time Select a position to start play by specifying a time with the numbered buttons.			
1 : 46: 50	DVD-A Changing the time display Press [▲, ▼] to show the elapsed play time, remaining time for the track, or remaining time for the group.			
b DD Digital 1 ENG 3/2.1 ch a	 Soundtrack (a) Soundtrack language (See ▲ at right for language abbreviations.) (b) Audio signal type (See B at right for details.) 			
Vocal 1 × 0FF	Karaoke vocal on/off (Karaoke DVD only) Solo: OFF or ON Duet: OFF, V1+V2, V1 or V2			

lcon	Content
	Subtitle language (See A below for language abbreviations.)
	Subtitles on/off ON ↔ OFF
	Angle number
Page 1	DVD-A Still picture number Selected picture is shown during play.

A 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

B Signal type/data

LPCM/PPCM/DDigital/DTS: Signal type k (kHz): Sampling frequency b (bit): Number of bits ch (channel): Number of channels Example: Sample:
3/2 .1ch
.1: Subwoofer signal (not displayed if there is no subwoofer signal)
0: No surround 1: Mono surround 2: Stereo surround (left/right)
1: Center 2: Front left+Front right 3: Front left+Front right+Center

Unit information

Play menu

lcon	Content	
ک AB	A-B repeat (→ page 16) [ENTER] (start point) → [ENTER] (finish point) To cancel: [ENTER]	
OFF	Repeat play (→ page 16) DVD-A Track (T) ↔ Whole group (G) ↔ OFF ↑ During All group, Program, or Random play mode, "A" is displayed instead of "G". DVD-V Chapter (C) ↔ Title (T) ↔ OFF ↑	

lcon	Content		
>	DVD-A Play mode display : Normal play RND: Random play PGM: Program play ALL: All group play		
	Marker (→ page 14) You can mark up to 5 positions to play again. [ENTER] (The unit is now ready to accept markers.)		
<i>⋟</i> 123**	To mark a position [ENTER] (at the desired point) To mark another position: [◀, ▶] ➡ [ENTER]		
	To recall a marker: [◀, ▶] ➡ [ENTER]		
To erase a marker: [◀, ▶] ➡ [CANCEL]			

Display menu

IPB_ I/P/B display (→ page 36) ON ←→ OFF OFF Displays the picture type (I/P/B) in the still	lcon	Content
picture mode.	OFF	ON↔OFF

(())) Audio menu

lcon	Content
OFF	(Dolby Digital/DTS, 3-channel or over only) DVD-V Dialogue Enhancer ON ←→ OFF The volume of the dialogue from the center channel is raised when you select "ON".

Video menu L

lcon	Content	
Ņ	Digital picture mode N: Normal mode C: Cinema mode (→ page 14) U: User mode The following items are also displayed when you select "U".	
Ô Ì	Contrast $(-7 \text{ to } +7)$ Increases the contrast between white and black parts of the picture.	
× 0	Brightness (0 to +15) Brightens the picture.	
D	Color $(-7 \text{ to } +7)$ Adjust the shade of the picture's color.	

HT95 When the progressive indicator is on (→ page 12):

lcon	Content	
Î Î Î Î Î Î Î Î Î Î Î Î Î Î Î Î Î Î Î	Digital picture mode N: Normal mode C: Cinema mode (➡ page 14)	
Auto	Transfer MODE Select the method of conversion for progressive output to suit the type of material being played (→ page 36, "Film and video"). Auto (normal): for viewing film material Video: for video material	
← #→	 Horizontal position Press the numbered buttons to change the horizontal position of the picture. After highlighting the icon shown at left: Press [1]. Press [1] to move the picture to the left or [3] to move the picture to the right. Pressing [2] returns the position to the factory preset. This position is saved even if you turn the unit off. 	

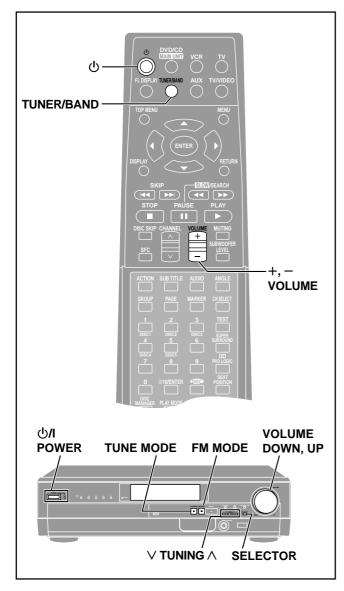
Shuttle screen

There are five speeds for both backward and forward slow-motion and search.

The numbers on either side of the shuttle screen indicate the maximum speeds of the search.

lcon	Content
	Pause
	Slow-motion play ◄I: Backward I►: Forward
	Play
<	Search ◀◀: Backward ▶▶: Forward

The radio: manual tuning



Radio stations can be tuned manually by selecting the station's frequency or they can be preset into channels to make it easy to tune (⇒ page 23).

Unless otherwise indicated, frequency display examples shown are from the model for the U.S.A., Canada, and units with PX printed on the outer packaging.

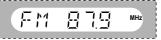
Preparation

Press [U/I POWER] to turn on the unit.

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

Each time you press the button: $\mathsf{DVD/CD}{\rightarrow}\textbf{FM}{\rightarrow}\textbf{AM}{\rightarrow}\mathsf{TV}{\rightarrow}\mathsf{VCR}{\rightarrow}\mathsf{AUX}$

Remote control: Press [TUNER/BAND].



TUNE

MODE] to select

"MANUAL". Each time you press the button: **MANUAL**↔PRESET



3 Press [TUNING (\lor or \land)] to select the frequency of the required station.

Displayed when a stereo FM broadcast is being received.

STEREO	EM	88	1	MHz
	1 1 1		1	
TUNE	D			
				}

Displayed when a radio station is tuned.

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

4 Adjust the volume.

If noise is excessive in FM

Main unit only

Press [FM MODE] to display "MONO".



This mode improves sound quality if reception is weak but broadcasts are heard in monaural.

Press [FM MODE] again to cancel the mode.

The mode is also canceled when you changed the frequency.

Turn "MONO" off for normal listening.

Stereo and monaural broadcasts are automatically played as they are received.

Allocation settings

Main unit only

Each country allocates broadcast bands according to their particular system.

For U.S.A., Canada, and units with PX printed on the outer packaging

You can change the FM step. The step is factory-set to 0.2 MHz, but you can change it to receive broadcasts allocated 0.1-MHz steps. For Latin America

You can change the AM step. The step is factory-set to 9 kHz, but you can change it to receive broadcasts allocated 10-kHz steps.

- (1) Press [SELECTOR] to select "FM" (for either band).
- Press and hold [SELECTOR]. After a few seconds, the current minimum frequency flashes on the display. Continue to hold the button down. The minimum frequency changes and the step is changed.

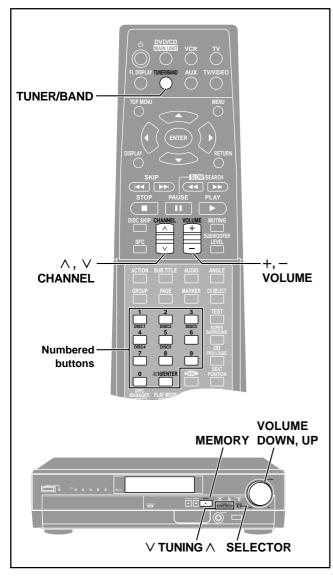
To return to the original step, repeat the above steps.

Note

Preset in channels (FM and AM) will be changed by this procedure. Preset them again.

2

Press



There are two methods of presetting stations.

Automatic presetting: The stations the tuner can receive are preset. Manual presetting: You can select the stations to preset and the order they are preset in.

Up to 12 stations can each be set in the FM and AM bands.

Automatic presetting

Main unit only

For U.S.A., Canada, and units with PX printed on the outer packaging

- 1 Tune to "FM 87.9 MHz" (or "FM 87.5 MHz") (→ page 22).
- 2 Press and hold [MEMORY]. The FM stations the unit can receive are preset.



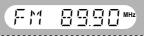
- **3** Tune to "AM 520 kHz" (→ page 22).
- 4 Press and hold [MEMORY]. The AM stations the unit can receive are preset.



The last station to be preset is displayed when presetting finishes.

For Latin America

- 1 Tune to "FM 87.50 MHz" (→ page 22).
- 2 Press and hold [MEMORY]. The FM stations the unit can receive are preset.



- 3 Tune to "AM 522 kHz" (or "AM 520 kHz") (→ page 22).
- 4 Press and hold [MEMORY]. The AM stations the unit can receive are preset.



The last station to be preset is displayed when presetting finishes.

Manual presetting

Main unit only

Preset the stations one at a time.

- 1 Tune to the station (→ page 22).
- 2 Press [MEMORY] twice.
- 3 Press [TUNING (∨ or ∧)] to select a channel.

4 Press [MEMORY].

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

Selecting channels

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

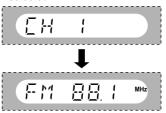
•Main unit: Press [SELECTOR]. Each time you press the button: DVD/CD→**FM→AM**→TV→VCR→AUX

FM	879	MHz

2 Press the numbered buttons or [CHANNEL (∧ or ∨)] to select the channel.

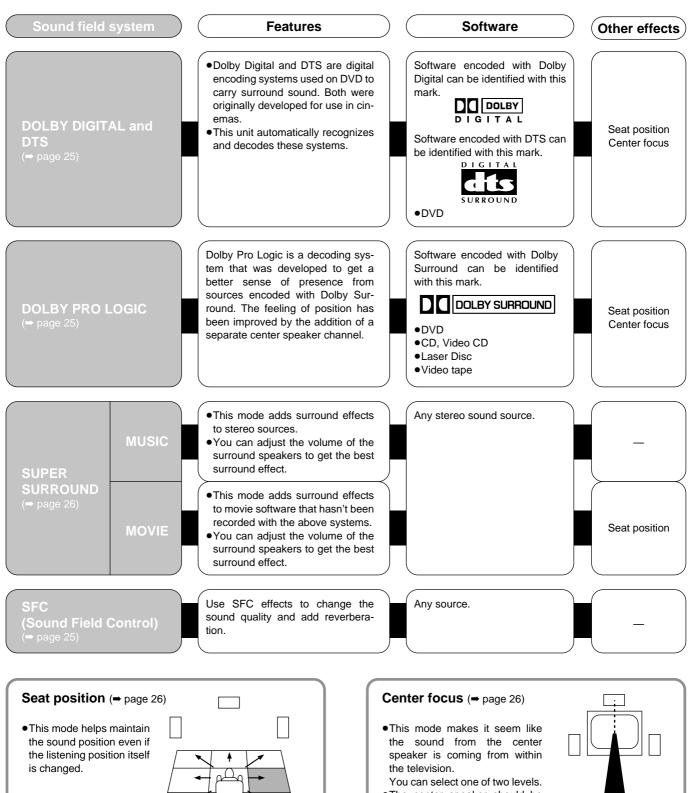
To select a 2-digit number

Example: To select channel 12, press [≥10/ENTER] → [1] → [2].
Main unit: Press [TUNING (∨or ∧)] while "PRESET" is selected.

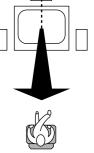


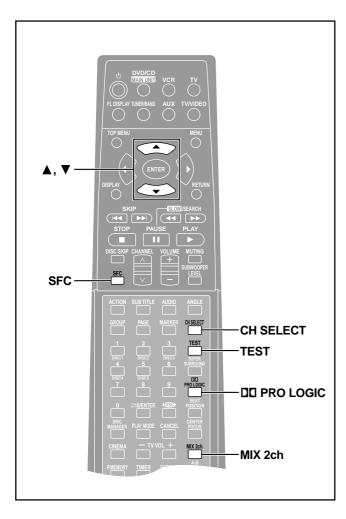
Note

- Dolby Pro Logic and Super Surround cannot be used if headphones are connected.
- You may experience a reduction in sound quality when these sound field systems and effects are used with some sources. If this occurs, turn the sound field system or effect off.



•The center speaker should be placed above the television.



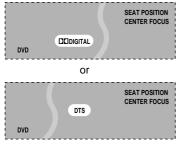


Remote control only

DOLBY DIGITAL and DTS

Play a DOLBY DIGITAL or DTS source.

"DIGITAL" or "DTS" lights.



To add power to the bass from the subwoofer \Rightarrow page 26.

To down-mix Dolby Digital or DTS (5.1 ch) signals to 2 channels (Front L/R)

Press [MIX 2ch] during play.

To cancel, press [MIX 2ch] again.

MIX2ch	
DVD	

When "MIX2ch" is flashing

The DVD-Audio disc you are playing contains multiple-channel signals that cannot be down-mixed ("NO DOWN-MIX" also appears).

DOLBY PRO LOGIC

1 Press [DD PRO LOGIC]. SEAT POSITION CENTER FOCUS

2 Play a Dolby Surround source.

To cancel Press [DD PRO LOGIC].

Note

Turn Dolby Pro Logic off when playing a DVD recorded with Dolby Digital or DTS. The surround effects will not be reproduced correctly if this is left on.

Speaker level adjustments

If the level of the speakers appears to be different while listening to a source, adjust the level of the speakers to the same apparent level.

Preparation

 DOLBY DIGITAL and DTS:
 Turn off the other sound field systems.

 DOLBY PRO LOGIC:
 Press [DI PRO LOGIC].

- ① Remove the discs (or select an empty tray).
- ② Press [TEST] to output a test signal.



Lch: Front left (-16 dB to 0 dB) Cch: Center (+6 dB to -10 dB)

Rch: Front right (-16 dB to 0 dB)

- RSch: Right surround (+6 dB to -10 dB)
- LSch: Left surround (+6 dB to -10 dB)
- The surround channel for Dolby Pro Logic is monaural so the indicator appears as "Sch" instead.
- ③ Press [\blacktriangle] (to increase) or [\triangledown] (to decrease).
- To stop the test signal, press [TEST] again.

To adjust speaker level during play

1. Press [CH SELECT] to select the speaker. Lch \rightarrow Cch \rightarrow Rch \rightarrow RSch \rightarrow LSch \rightarrow SWch

SWch: Subwoofer (+10 dB to -10 dB)

Dolby Pro Logic

- •The surround channel is monaural so the indicator appears as "Sch" instead.
- "SWch" does not appear.
- Press [▲] (to increase) or [▼] (to decrease).

Changing sound field and quality

Press [SFC] to select a setting.

서든 뒤 / 님	HEAVY CLEAR SOFT DISCO LIVE HALL
	FLAT

Each time you press the button:

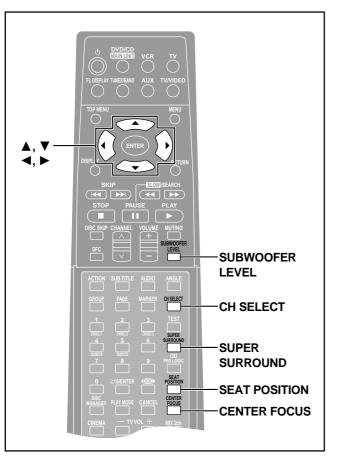
HEAVY: Adds punch to rock (factory preset).

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).
 - RQT6183

25



Remote control only

SUPER SURROUND

Press [SUPER SURROUND] to select "MUSIC" or "MOVIE".

Each time you press the button:

⊢→MUSIC

MUSIC	
SUPER SRND	
↓ MOVIE	
MOVIE	SEAT POSITION
SUPER SRND	
↓ —(off)	

Note

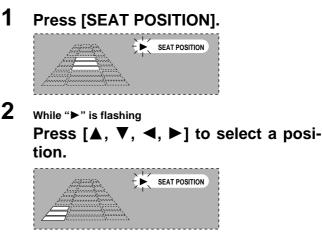
Turn super surround off when playing a DVD recorded with Dolby Digital or DTS. The surround effects will not be reproduced correctly if this is left on.

To adjust the surround speaker level

- While playing a source
- Press [CH SELECT].
- ② Press [▲] (to increase) or [V] (to decrease).

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.



To cancel Press [SEAT POSITION] to clear "►".

CENTER FOCUS

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

Press [CENTER FOCUS].



CENTER FOCUS 1→CENTER FOCUS 2→OFF

The CENTER FOCUS 2 enhances the effect and makes it easier to hear dialogue even at low volume.

To cancel

Press [CENTER FOCUS] to clear "▶".

Adjusting the bass

Press [SUBWOOFER LEVEL].

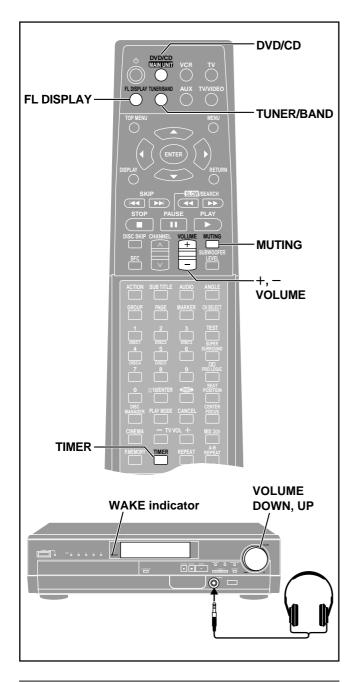
Each time you press the button:

SUB W 1 \rightarrow SUB W 2 \rightarrow SUB W 3 \rightarrow SUB W 4 \rightarrow SUB W 0 (off)

Note

You cannot adjust the bass while you are using headphones ("ERROR" appears on the display).

Convenient functions



Muting the volume

Remote control only

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 the unit is turned off.

Turning off the display

Remote control only

The display and all indicators, except for the standby/on indicator, are turned off for better television viewing.

Press [FL DISPLAY].

To cancel, press [FL DISPLAY] again.

Timer functions

Remote control only

The SLEEP timer can turn the unit off after a set time and the WAKE timer can turn it on. You can use only one timer at a time.

Preparation

Select the desired source.

Disc

Press [DVD/CD] to display "DVD/CD", and insert an Audio CD, etc. •The radio

Press [TUNER/BAND] to select "FM" or "AM" and tune in the desired station.

1 Press [TIMER] to select the timer.

Each time you press the button: $SLEEP \longrightarrow WAKE \longrightarrow OFF$

2 Within 5 seconds,

Press and hold [TIMER] and release when the timer you require is displayed.

The display changes as follows:

- •SLEEP (in minutes) $30 \longrightarrow 60 \longrightarrow 90$
- ●WAKE (in hours) 5H---->7H---->9H
- SLEEP starts working immediately.
- WAKE starts working when you switch the unit to standby. (The "WAKE" indicator lights up.)

To cancel the timer

Press [TIMER] to select "OFF".

To check the setting

Press [TIMER] once.

- If you set SLEEP, the time remaining appears.
- If you set WAKE, the setting appears.

To change the setting

Repeat the procedure from the beginning.

Using headphones

1 Reduce the volume and connect the headphones (not included). Headphone plug type: 6.3 mm (1/4") stereo

reauphone plug type. 6.5 mm (74) stereo

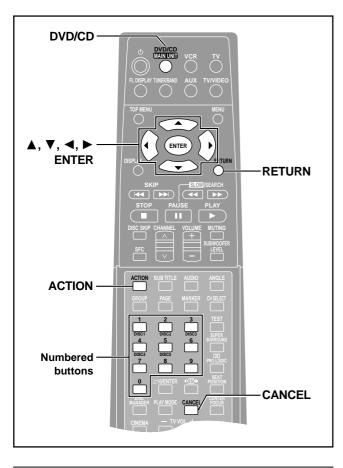
2 Adjust headphone volume with [VOLUME].

Audio is automatically switched to stereo (2-channel). If sound is distorted, turn on dynamic range compression (→ page 28, Audio—D. Range Compression).

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 29 for details on menu operation. •Underlined items are the factory preset.

Menus	Items	Options				
Disc	Audio DVD-A DVD-V Choose the preferred audio language.	English French Spanish Original Other **** Original: The original language of each disc will be selected. Other ****: Input a code number with the numbered buttons (➡ page 36).				
	Subtitle DVD-A DVD-V Choose the preferred subtitle language.	Automatic English French Spanish Other **** Automatic: If the language selected for "Audio" is not available, subtitles of that language will automatically appear if available on that disc.				
	Menus DVD-A DVD-V Choose the preferred language for disc menus.	English French Spanish Other ****				
	 Ratings DVD-V (→ page 29) 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. Select "Level 0" to prevent play of discs that do not have ratings 	n selected.				
	levels recorded on them.	Changing ratings (When level 0–7 is selected) Unlock Player Change Level Change Password Temporary Unlock				
Video	TV Aspect (→ page 10) Choose the setting to suit your television and preference.	4:3 Pan&Scan 4:3 Letterbox 16:9				
	Still Mode (→ page 36) Specify the type of picture shown when paused.	Automatic Field Frame				
	Black Level Control Change the black level of the picture.	Lighter Darker HT95 Select "Darker" if you connected using the COMPONENT VIDEO OUT terminals.				
Audio	Speaker Setting DVD-V (→ page 29) (Dolby Digital only) Set the delay time for your center and surround speakers.	Center: 0/1.3/2.6/3.9/5.3 ms Surround (L/R): 0/5.3/10.6/15.9 ms				
((C)))	D. Range Compression DVD-V (Dolby Digital only) Change the dynamic range for late night viewing.	Off On Turn dynamic range compression on in the following cases. •For clear dialogue when listening at low volume. •When sound is distorted while playing multi-channel DVD through two channels (when headphones are connected or when using the MIX 2ch mode.)				
	Audio during Search DVD-A DVD-V VCD Choose whether to have sound during search.	On Off: Audio will still be heard during search with some DVD- Audio.				
Display	Menu Language Choose the preferred language for these menus and the on- screen messages.	English Français Español				
	On-Screen Messages Choose whether to show on-screen messages or not.	<u>On</u> Off				
Others	DVD-Video Mode Select how to play pictures contained on some DVD-Audio. The setting returns to "Off" when: -The unit is turned off. -The disc is changed or removed. -A source other than DVD/CD is selected.	Off :DVD-Audio are played as DVD-Audio. On: DVD-Video contents found on DVD-Audio can be played.				



Common procedures

Remote control only

See page 28 for menu and option details.

Preparation

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

1 Press [ACTION] to show the menus.



2 Press [◄, ▶] to select the menu's tab. The screen changes to display the menu.



- 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 Press [ACTION].

Entering a password (Ratings)

DVD-V

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

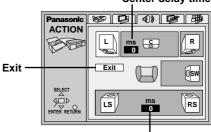
- Input a 4-digit password with the numbered buttons and press [ENTER].
 If you enter a wrong number, press [CANCEL] to erase it before you press [ENTER].
 - •The lock symbol appears closed to show the rating is locked.
 - •Do not forget your password.
- 2. Press [ENTER] to confirm the 4 digits.

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

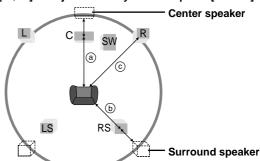
DVD-V (Dolby Digital, center and surround speakers only)

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**



Surround delay time

- Changing the delay time 1. Press $[\blacktriangle, \forall, \triangleleft, \blacktriangleright]$ 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 (1½ feet)	1.3 ms
Approx. 100 cm (3 feet)	2.6 ms
Approx. 150 cm (5 feet)	3.9 ms
Approx. 200 cm (6 feet)	5.3 ms

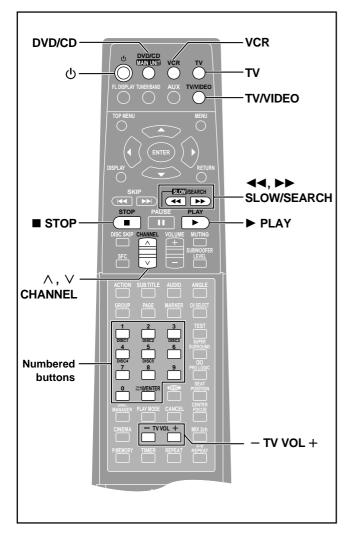
b Surround speakers

Difference	Setting
Approx. 200 cm (6 feet)	5.3 ms
Approx. 400 cm (12 feet)	10.6 ms
Approx. 600 cm (18 feet)	15.9 ms

When you are finished

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

Using the remote control with other equipment



Remote control only

Operating a television

Switching to television operation mode Press [TV]. The button lights. The main unit also switches to television input.

Turning the television on/off Press $[\bullet]$.

Changing channels Press [CHANNEL (\land or \lor)]. You can also select the channel with the numbered buttons. To select a 2-digit number Example: To select channel 23, press [\ge 10/ENTER] \Rightarrow [2] \Rightarrow [3].

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

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

Operating a video cassette recorder

Switching to video cassette recorder operation mode Press [VCR].

The button lights. The main unit also switches to VCR input.

Turning the video cassette recorder on/off Press [\bigcirc].

Changing channels

Press [CHANNEL (\land or \lor)]. Channels 1 to 10 can also be selected with the numbered buttons. [0] selects channel 10.

Starting play Press [▶] (PLAY).

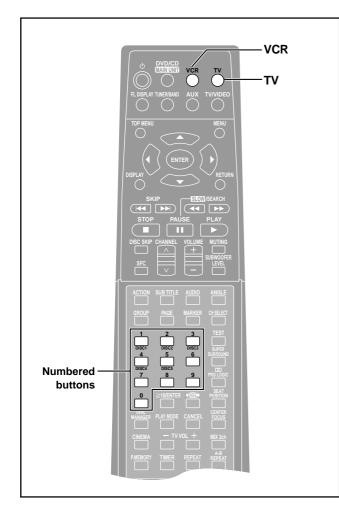
Fast-forwarding and rewinding Press [◀◀] or [▶▶].

To stop play Press [■].

Note

• Some models cannot be operated by this remote control.

•To prevent accidental operation, press [DVD/CD] after operation so the unit is ready to operate this unit.



Television code list

Panasonic: Sony:

Fisher:

Hitachi:

Magnavox:

Mitsubishi: NEC:

JVC:

LXI:

G-E: Gold Star: 01.02.26

04

14 02, 03, 07, 09

07, 15

05.07

03, 06, 07, 10, 14, 15

06, 07, 11, 15,

12

22 07, 15, 16, 21

07, 15

Changing the remote control code

This remote control can operate Panasonic and Technics audiovisual equipment that have remote control sensors. You may need to change the remote control code.

It can also operate some other brands of televisions and video cassette recorders. Check the table for the brand and enter the code as follows.

Aiming the remote control at the television or video cassette recorder, carefully and slowly

While pressing and holding [TV] or [VCR], press the numbered buttons to enter the code number.

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.
- •Reenter the codes after you change the batteries.

		Video cas	ssette recorde	r code list	
Philco:	06, 07	Panasonic:	01, 02, 09, 33	NEC:	19, 25, 31, 38
Philips:	06	Sony:	05, 06, 07, 35,	Philco:	02, 09, 12, 30
Pioneer:	02, 10, 19		36, 37	Philips:	02, 09, 12
Quasar:	02	Fisher:	13, 14, 15, 18,	Pioneer:	09
RCA:	03, 07, 09, 13,		34	Quasar:	01, 02, 09, 33
	23, 24, 25	Funai:	08, 30	RCA:	02, 03, 04, 09,
Sanyo:	14	G-E:	02, 03, 11		10, 11, 12, 23,
Sharp:	08, 21	Gold Star:	27		24, 26
Sylvania:	06, 07, 15	Hitachi:	09, 10, 11	Sanyo:	14, 18, 34
Symphonic:	17	JVC:	19, 25, 31, 38,	Sharp:	16, 17
Toshiba:	10, 21		39, 40	Shintom:	32
Zenith:	18, 20	LXI:	10, 13, 14, 15,	Sylvania:	02, 09, 12, 30
			18, 27, 30	Symphonic:	30

02, 09, 12

21, 22, 28, 29

Magnavox:

Mitsubishi:

Other functions

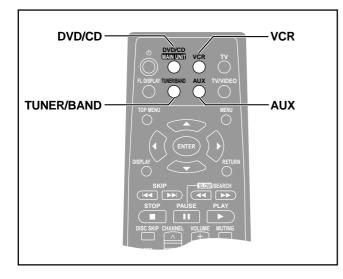
23, 24

20

Toshiba:

Zenith:

Listening to an external source/Recording to other equipment

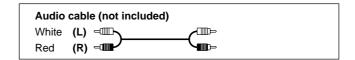


Video cassette recorder (not included)

яĦ

10

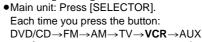
- •Turn the unit off before making connections.
- •Refer to the manual of the other unit for details. (Cables and equipment not included.)



You can playback the sound from a video cassette recorder through this unit's speaker.

Press [VCR].

1



- 2 Start play.
- А You can playback the sound from a tape deck/laser disc player, etc., through this unit's speaker.

1 Press [AUX].

- •Main unit: Press [SELECTOR]. Each time you press the button: DVD/CD→FM→AM→TV→VCR→AUX
- 2 Start play.

В You can record sound from the radio or discs, etc. to a tape deck.

1 Disc

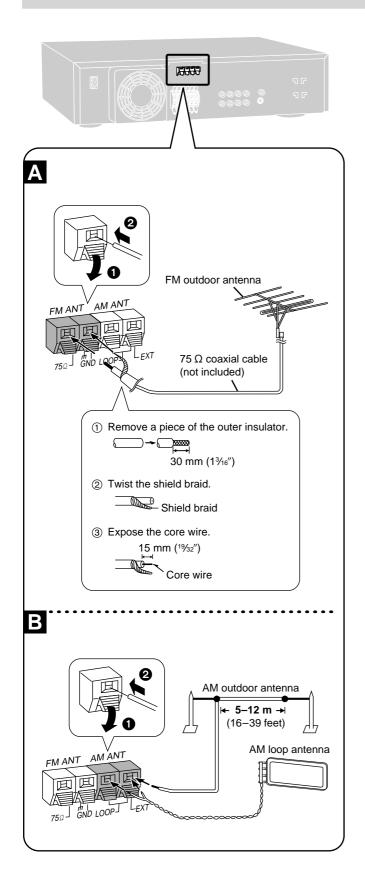
> Press [DVD/CD] to select "DVD/ CD".

- •The radio Press [TUNER/BAND] to select "FM" or "AM". Main unit → see above.
- 2 Start recording and play.

o •**000**•=0 -mp-AUDIO OUT C \bigcirc (C) €∃ - III D-Ð C ÷. Ð VCR AUX LINE AUDIO OUT Λ Β Α Ē E (\bigcirc) (\bigcirc) L **Ð** R PLAY RĒC IN 0 0 0 0 0° \square e.g. Tape deck (not included)

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.



Use outdoor antennas if radio reception is poor.

FM outdoor antenna (Using a television antenna) Disconnect the FM indoor antenna.

•The antenna should be installed by a competent technician.

B AM outdoor antenna (Using a vinyl wire)

Run a piece of vinyl wire horizontally across a window or other convenient location. Leave the loop antenna connected.

Note

Disconnect the outdoor antenna when the unit is not in use. Do not use the outdoor antenna during an electrical storm.

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:

In the U.S.A., contact the Panasonic Customer Call Center at 1-800-211-7262, or e-mail consumerproducts@panasonic.com, or web site (http://www.panasonic.com).

In Canada, contact Panasonic Canada Inc. Customer Care Centre at 1-800-561-5505, web site (www. panasonic.ca), or an authorized Servicentre closest to you.

In other areas, consult your dealer.

Reference pages are shown as black circled numbers **(9)**.

Power

No power.	 Insert the AC power supply cord securely into the household AC outlet. (9)
The unit is automatically switched to the standby mode.	 The unit was switched to standby by the sleep timer. .

Operation

Operation	
No response when buttons pressed.	 Some operations may be prohibited by the disc. The unit may not be operating properly due to lightning, static electricity or some other external factor. Reset procedure: Press [0] to switch the unit to the standby mode and then back to ON. Alternatively, press [0] to switch the unit to the standby mode, disconnect the AC power supply cord, and then reconnect it.
No operations can be performed with the remote control.	 Check the batteries are installed correctly. ⁽¹⁾ The batteries are depleted: Replace them with new ones. ⁽¹⁾ Point the remote control at the remote control sensor and operate. It may be in the television or video cassette recorder operation mode. Press [DVD/CD] to operate this unit. If the remote control doesn't operate the television or video cassette recorder, try changing the code. This remote control cannot operate some televisions or video cassette recorders. ⁽²⁾
Play fails to start even when [▶] (PLAY) is pressed. Play starts but then stops immediately.	 Condensation has formed: Wait 1 to 2 hours for it to evaporate. This unit cannot play discs other than DVD-Audio, DVD-Video, CD and Video CD. ⁽⁵⁾ You can only play DVD-Video if their region number is the same or includes the same region number as the unit or if the DVD-Video is marked "ALL". Confirm the region number for the unit on the rear panel. ⁽⁵⁾ The disc may be dirty and may require cleaning. ⁽⁶⁾ Ensure that the disc is installed with the label of the side to be played facing upwards. ⁽²⁾
Alternative languages fail to be selected.	 An alternative language is not selected with discs which do not contain more than one language. In the case of some discs, the alternative language cannot be selected with [AUDIO] or [SUB TITLE]. Try selecting it from the disc's menu if one is available.
No menu play.	 Menus are only displayed if they are recorded on the disc.
No subtitles.	 Subtitles appear only with discs that contain them. Subtitles are cleared from the television. Display the subtitles. ()
Soundtrack and/or subtitle language is not the one selected with the ACTION menus.	The language is not recorded on the disc.
Angle cannot be changed.	•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. (1)
The ACTION menu cannot be accessed.	 Select "DVD/CD" as the source. Cancel program and random play. 10
You have forgotten your ratings password. Reset all the settings to Factory Preset.	•While stopped, press and hold [■] on the unit and [≥10/ENTER] on the remote control for about 3 seconds until "Initialized" disappears from the television. Turn the unit off and on again. All settings will return to the default values.

Sound

No sound. Distorted sound.	 Check the connections. C S S C Turn the volume up. Turn muting off. C Switch off the unit, determine and correct the cause, then switch the unit on. Causes include: Shorting (bare wires touching) of positive and negative speaker wires. C Using speakers with an impedance lower than that rated for this unit. C Straining of the speakers through excessive volume or power. Using the unit in a hot environment without proper ventilation.
Humming heard during play.	 An AC power supply cord or fluorescent light is near the cables. Keep other appliances and cords away from this unit's cables. If possible in your area, turn the AC power supply cord's plug or connector over to reverse the plug's polarity.
No sound from the subwoofer.	Check that the subwoofer has not been set to "0".

Picture

Picture	
Picture distorted.	Some distortion is normal during SEARCH.
No picture.	 Ensure that the television is connected properly. ③ Make sure the television is on. Ensure the television's video input setting (e.g., VIDEO 1) is correct. If "This disc is PAL system. The output is sound only." is on the television, then you have loaded a PAL system DVD-Audio and only the audio portion of the disc can be played.
	 HT95 The unit does not output video signals from the VIDEO OUT and S-VIDEO OUT terminals when the "PROGRESSIVE OUT" indicator is on. Press [PROGRESSIVE OUT] to turn progressive out off.
The picture shown on the television is not normal.	 Ensure that the unit is connected directly to the television, and is not connected through a video cassette recorder. Go to the Video menu in the ACTION screen, and change "TV Aspect" to suit your television. You may also need to change the screen mode on the television itself. HT95 If your television cannot change the aspect when input is progressive Press [PROGRESSIVE OUT] so the indicator goes out. Output will now be interlace.
HT95 There is ghosting when progressive output is on.	•Turn progressive output off. This problem is caused by the editing method or material used on the DVD, but should be corrected if you use interlace output.
Picture quality is poor.	•Check the settings in the On-Screen Menu Icons' video menu. 2
HT95 The picture is off center when using progressive output.	●Adjust the horizontal position with the on-screen menu icons. ④
The picture on the television disappears or stripes appear on the screen.	 The location and orientation of the antenna are incorrect. If you are using an indoor antenna, change to an outdoor antenna. The television antenna wire is too close to the unit. Separate the antenna wire of the television from the unit.
Listening to the radio	
Noise is heard. The stereo indicator flickers or doesn't light. Sound is distorted.	 Adjust the position of the FM or AM antenna. Use an outdoor antenna.
A beat sound is heard.	•Turn the television off or separate it from the unit.
A low hum is heard during AM broadcasts.	•Separate the antenna from other cables and cords.
Unit displays	
This unit's display is off.	Press [FL DISPLAY] to turn the display on.
"NO PLAY"	 You inserted a disc the unit cannot play; insert one it can.
"NO DISC"	 You haven't inserted a disc; insert one. You haven't inserted the disc correctly; insert it correctly.
"F61"	•Check and correct the speaker cord connections. If this does not fix the problem, there is a power supply problem. Consult the dealer.
"DVD U11" "ERROR"	 The disc is dirty. Wipe it with a soft cloth. Incorrect operation performed. Read the instructions and try again. The track playing has been recorded with a nonstandard system.
"DVD H□□"	 Trouble is likely to have occurred. The number following "H" depends on the status of the unit. Reset procedure:
□□ stands for a number.	Press [\bigcirc] to switch the unit to the standby mode and then back to ON. Alternatively, press [\bigcirc] to switch the unit to the standby mode, disconnect the AC power supply cord, and then reconnect it. •If the service numbers fail to clear, note the service number and contact a qualified service person.
"TAKE OUT DISC"	• A problem has occurred with the tray mechanism. The tray will open automatically. Take out the disc and close the tray. The unit will make the disc changing noises for a few moments and then should operate normally.
Television displays	
No on-screen display.	•Go to Display in the ACTION menus, and select "On" for "On-Screen Messages". 20
On-Screen Menu Icons not displayed or only partially displayed on the television.	●Press [▲, ▼] while the rightmost icon is highlighted to move them down.
The dice's many is displayed in a	• Co to Disc in the ACTION manual and select the preferred language for "Manua"

Maintenance

The disc's menu is displayed in a

different language.

To clean this unit, wipe with a soft, damp 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 tray is empty.

•Go to Disc in the ACTION menus, and select the preferred language for "Menus". 20

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

Bitstream

This is the digital form of multiple channel audio data (e.g., 5.1 channel) before it is decoded into its various channels.

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 5.1-channel audio. A large amount of audio information can be recorded on one disc using this method.

Dolby Pro Logic

A surround system where a 4-channel audio track is recorded as 2 channels and then is restored to 4 channels for play. The surround channel is monaural and can reproduce up to 7 kHz.

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

DVDs 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 480i video signals output from this unit's COMPONENT VIDEO OUT terminals (Y, P_B, P_R) allow you to enjoy higher quality pictures than if the signals were output from the video output terminal or S-VIDEO OUT terminal. The COMPONENT VIDEO OUT terminals are also able to handle 480p (progressive) video signals which are of even greater resolution.

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 (I-picture)

This is the standard picture and is a complete picture in itself. This means it has the best picture quality and is the best to use when adjusting the picture.

- P: Predictive coded picture (P-picture) This picture is calculated based on past I or P-pictures.
- B: Bidirectionally-predictive coded picture (B-picture) This picture is calculated by comparing past and future I and Ppictures so it has the lowest volume of information.

Linear PCM (pulse code modulation)

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

MP3

A method of compressing audio, MPEG Audio Layer 3 (MP3) allows audio to be reduced to up to one tenth its original size without overtly hurting audio quality.

When creating MP3 files to play on this unit

• Disc formats: ISO9660 level 1 and level 2 (except for extended formats)

Files: MP3 files with the suffix ".mp3" or ".MP3"

•To have this unit play files in a certain order, prefix folder and file names with numbers in the order you want to play them. This may not work in all cases.

Not compatible with multi-session recordings

If you record MP3 onto CD-R/CD-RW over a number of sessions, this unit can play only the recordings made in the first session.

Playback control (PBC)

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

Language code 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:	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:	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		

AMPLIFIER SECTION HT95

FTC TTL POWER OUTPUT		360 W
120 Hz–20 kHz, 1.0 % total has FRONT	rmonic distortion	W per ch (6 Ω)
CENTER	50	80 W (6 Ω)
SURROUND		W per ch (6 Ω)
45 Hz–120 Hz, 1.0 % total harr SUBWOOFER	nonic distortion	144 W (6 Ω)
RMS TTL POWER OUTPUT		500 W
1 kHz, 10 % total harmonic dis		
FRONT CENTER	46	W per ch (6 Ω) 106 W (6 Ω)
SURROUND	56	W per ch (6 Ω)
100 Hz, 10 % total harmonic d		
SUBWOOFER		190 W (6 Ω)
Input sensitivity/input impedane AUX		250 mV, 10 kΩ
-		,
AMPLIFIER SECTION HT	75 for U.S.A. and	
FTC TTL POWER OUTPUT 120 Hz–20 kHz, 1.0 % total has	rmonic distortion	300 W
FRONT		W per ch (6 Ω)
CENTER	05.1	35 W (6 Ω)
SURROUND 45 Hz–120 Hz, 1.0 % total harr		W per ch (6 Ω)
SUBWOOFER		135 W (6 Ω)
RMS TTL POWER OUTPUT		400 Ŵ
1 kHz, 10 % total harmonic dis FRONT		W par ab (6 O)
CENTER	40	W per ch (6 Ω) 46 W (6 Ω)
SURROUND		W per ch (̀6 Ω)́
100 Hz, 10 % total harmonic d SUBWOOFER	istortion	170 W (6 Ω)
Input sensitivity/input impedant	се	170 W (0 32)
AUX		250 mV, 10 kΩ
AMPLIFIER SECTION HT7	5 for Latin Amaria	a and others
RMS TTL POWER OUTPUT		a and others 400 W
1 kHz, 10 % total harmonic dis	stortion	100 11
FRONT	41	W per ch (6 Ω)
CENTER SURROUND	52	42 W (6 Ω) W per ch (6 Ω)
100 Hz, 10 % total harmonic d		
SUBWOOFER		172 W (6 Ω)
PMPO TTL POWER OUTPUT Input sensitivity/input impedance	~~	2300 W
AUX		250 mV,10 kΩ
FM TUNER SECTION		
Frequency range For U.S.A., Canada and others	87.9–107.9 MHz (2	200 kHz stens)
	87.5–108.0 MHz (2	
	87.50-108.00 MHz	(50 kHz steps)
Antenna terminals	75	Ω unbalanced
AM TUNER SECTION		
Frequency range		
For U.S.A., Canada and others	520–1710 kHz	(10 kHz steps)
For Latin America	522–1629 kHz	
	520–1630 kHz	(10 kHz steps)
DISC SECTION		
Compatible disc types		DVD-AUDIO
		DVD-VIDEO
	DVD-R (DVD-VID	
CD-R/RW (C	D-DA, VIDEO-CD, d	A), VIDEO-CD or MP3 format)
Audio	<i>B B</i> , (, V <i>B E</i> 0 <i>B</i> , (
Number of channels	5.1 (FL, FR, S	SL, SR, C, SW)
Video Signal system		NTSC
Output terminal	RCA (co	mposite video)
	S	terminal (Y, C)
Progressive scan HT95 Pick up	RCA (con	nponent video)
Beam Source	Semico	onductor Laser
Wavelength		
CD/VCD DVD		790 nm 658 nm

SPEAKER SECTION

HT95 SB-AFC95 Surround speakers HT75 SB-AFC95 Front and surround speakers 1 way 1 speaker Bass-ref. Туре Speaker Full range 8 cm (31/8") cone type Impedance íΩ Input power 60 W (music) 79 dB/W (1.0 m) Output sound pressure level **Frequency range** 80 Hz-22 kHz (-16 dB) 110 Hz-20 kHz (-10 dB) 88×135×112 mm (3¹⁵/₃₂"×5¹¹/₃₂"×4⁷/₁₆") Dimensions (W×H×D) Mass Approx. 0.8 kg (1.8 lb.) HT95 SB-AFC286 Front and center speakers 2 way 2 speaker Bass-ref. Type Speaker unit Woofer 10 cm (4") cone type Tweeter 6 cm (23%") cone type Impedance 60 110 W (music) Input power Output sound pressure level 83 dB/W (1.0 m) Cross over frequency 4 kHz 67 Hz-22 kHz (-16 dB) **Frequency range** 92 Hz-20 kHz (-10 dB) 120×208×163 mm (4¾″×8¾16″×6⅔16″) Dimensions (W×H×D) Mass Approx. 1.9 kg (4.2 lb.) HT75 SB-PC89 Center speaker Туре 1 way 1 speaker Bass-ref. Speaker Full range 8 cm (31/8") cone type Impedance 6Ω 60 W (music) Input power Output sound pressure level 79 dB/W (1.0 m) 80 Hz-22 kHz (-16 dB) 110 Hz-20 kHz (-10 dB) 135×88×112 mm (5¹¹/₃₂"×3¹⁵/₃₂"×4⁷/₁₆") **Frequency range** Dimensions (W×H×D) Mass Approx. 0.8 kg (1.8 lb.) HT95 SB-W81 Subwoofer 1 way 1 speaker Bass-ref. Туре Speaker unit Woofer 17 cm (6¾") cone type Impedance 6Ω 200 W (music) Input power 80 dB/W (1.0 m) Output sound pressure level Frequency range 41 Hz-1.8 kHz (-16 dB) 45 Hz–1.6 kHz (–10 dB) Dimensions (W×H×D) 200×450×300 mm (7%"×1723/32"×1113/16") Mass Approx. 5.9 kg (13.0 lb.) HT75 SB-W95 Subwoofer Туре 1 way 1 speaker Bass-ref. Speaker unit Woofer 17 cm (6¾") cone type Impedance ĺΩ 200 W (music) Input power Output sound pressure level 80 dB/W (1.0 m) 42 Hz–1.5 kHz (–16 dB) 46 Hz–900 Hz (–10 dB) **Frequency range** Dimensions (W×H×D) 173×315×300 mm (6¹³/₁₆"×12¹³/₃₂"×11¹³/₁₆") Mass Approx. 4.0 kg (8.8 lb.) GENERAL For U.S.A. and Canada Power supply AC 120 V, 60 Hz Power consumption 190 W Dimensions (W×H×D) 430×114×368 mm (16¹⁵/16"×4¹/2"×14¹/2") Mass Approx. 8.4 kg (18.5 lb.) **GENERAL** For Latin America and others Power supply AC 110 V/127 V/220 V-230 V/240 V, 50/60 Hz Power consumption 171 W Dimensions (W×H×D) 430×114×368 mm (16¹⁵/16"×4¹/2"×14¹/2") Mass Approx. 8.4 kg (18.5 lb.) Power consumption in standby mode For U.S.A. and Canada 0.28 W 0.80 W For Latin America and others

Note

- Specifications are subject to change without notice. Mass and dimensions are approximate.
- 2. Total harmonic distortion is measured by the digital spectrum analyzer.

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Panasonic Technics



For Product Information, Operating Assistance, Literature Request, Dealer Locations, and all Customer Service inquiries please contact: 1-800-211-PANA (7262), Monday–Friday 9 am–9 pm; Saturday–Sunday 9 am–7 pm, EST.

Web Site: http://www.panasonic.com You can purchase parts, accessories or locate your nearest servicenter by visiting our Web Site.

Accessory Purchases:

1-800-332-5368 (Customer Orders Only) Panasonic Services Company 20421 84th Avenue South, Kent, WA 98032 (6 am to 5 pm Monday–Friday; 6 am to 10:30 am Saturday; PST) (Visa, MasterCard, Discover Card, American Express, Check)

Factory Servicenters Locations

CALIFORNIA 6550 Katella Avenue Cypress, CA 90630

800 Dubuque Avenue S. San Francisco CA 94080

3878 Ruffin Road Suite A San Diego, CA 92123

FLORIDA 3700 North 29th Avenue Suite 102 Hollywood, FL 33020 GEORGIA 8655 Roswell Road Suite 100 Atlanta, GA 30350

ILLINOIS 1709 North Randall Road Elgin, IL 60123

MASSACHUSETTS 60 Glacier Drive Suite G Westwood, MA 02090

MINNESOTA 7850-12th Avenue South Airport Business Center

Airport Business Center Bloomington, MN 55425

OHIO 2236 Waycross Road Civic Center Plaza Forest Park, OH 45240

PENNSYLVANIA 2221 Cabot Blvd. West Suite B Langhorne, PA 19047 TEXAS 13615 \

13615 Welch Road Suite 101 Farmers Branch TX 75244

WASHINGTON 20425-84th Avenue South Kent, WA 98032

HAWAII 99-859 Iwaiwa Street Aiea, Hawaii 96701 Phone (808) 488-1996 Fax (808) 486-4369

Service in Puerto Rico Matsushita Electric of Puerto Rico, Inc. Panasonic Sales Company/Factory Servicenter: Ave. 65 de Infanteria, Km. 9.5, San Gabriel Industrial Park, Carolina, Puerto Rico 00985 Phone (787) 750-4300 Fax (787) 768-2910

F08130 As of AUG '01

Limited Warranty (U.S.A.)

Panasonic Consumer Electronics Company, **Division of Matsushita Electric Corporation of America** One Panasonic Way Secaucus, New Jersey 07094

Panasonic Sales Company, Division of Matsushita Electric of Puerto Rico. Inc. Ave. 65 de Infantería, Km. 9.5 San Gabriel Industrial Park, Carolina, Puerto Rico 00985

Panasonic/Technics Audio Products Limited Warranty

Panasonic Consumer Electronics Company or Panasonic Sales Company (collectively referred to as "the Warrantor") will repair or replace this product with new or refurbished parts or equivalent product, free of charge in the U.S.A. or Puerto Rico, in the event of a defect in materials or workmanship as follows (all time periods commence from the date of original purchase):

AUDIO PRODUCTS—labor and parts for one (1) year

ALL AUDIO RACKS (cabinets)—parts only 30 days. TECHNICS STAND ALONE SPEAKERS, SUBWOOFER SPEAKERS—labor and parts for three (3) years.

USB READER-WRITER, PERSONAL COMPUTER CARD ADAPTERS-(when applicable)--exchange defective unit with a new or refurbished one for one (1) year

ACCESSORIES-HEADPHONES, CARTRIDGES, MICROPHONES, ADAPT-ERS—labor and parts for ninety (90) days

RECHARGEABLE BATTERIES—(when applicable)—exchange defective item for new one for ten (10) days. Non-rechargeable batteries are not warranted.

SD MEMORY CARDS, RECHARGEABLE BATTERY PACKS-(when applicable)-exchange defective item for new one for ninety (90) days. Non-rechargeable battery packs are not warranted.

Carry-in or mail-in service in the U.S.A. can be obtained during the warranty period by contacting a Panasonic Services Company (PASC) Factory Servicenter listed in the Servicenter Directory. Or call toll free, 1-800-211-7262 to locate a PASC authorized Servicenter. Carry-in or mail-in service in Puerto Rico can be obtained during the warranty period by calling the Panasonic Sales Company telephone number listed in the Servicenter Directory.

This warranty is extended only to the original purchaser. A purchase receipt or other proof of date of original purchase will be required before warranty service is rendered

This warranty only covers failures due to defects in materials and workmanship which occur during normal use and does not cover normal wear to the stylus (when applicable) or a dealer installed cartridge or stylus. The warranty does not cover damages which occur in shipment or failures which are caused by products not supplied by the warrantor, or failures which result from accident, misuse, abuse, neglect, mishandling, faulty installation, misapplication, set-up adjustments, maladjustment of consumer controls, improper operation or maintenance, improper antenna, inadequate signal reception or pick-up, alteration, modification, power line surge, improper voltage supply, lightning damage, commercial use, such as; hotel, office, restaurant, or other business or rental use of the product, or service by anyone other than a PASC Factory Servicenter or a PASC authorized Servicenter, or damage that is attributable to acts of God.

LIMITS AND EXCLUSIONS

There are no express warranties except as listed above.

THE WARRANTOR SHALL NOT BE LIABLE FOR INCIDENTAL OR CONSE-QUENTIAL DAMAGES RESULTING FROM THE USE OF THIS PRODUCT, OR ARISING OUT OF ANY BREACH OF THIS WARRANTY, INCLUDING WITHOUT LIMITATION, DAMAGE TO TAPES, RECORDS OR DISCS. ALL EXPRESS AND IMPLIED WARRANTIES, INCLUDING THE WARRANTIES OF MERCHANTABILI-TY, AND FITNESS FOR A PARTICULAR PURPOSE, ARE LIMITED TO THE AP-PLICABLE WARRANTY PERIOD SET FORTH ABOVE. Some states do not allow the exclusion or limitation of incidental or consequential damages, or limitations on how long an implied warranty lasts, so the above exclusions or limitations may not apply to you.

This warranty gives you specific legal rights and you may also have other rights which vary from state to state.

If a problem with this product develops during or after the warranty period, you may contact your dealer or Servicenter. If the problem is not handled to your satisfaction, then write to the Consumer Affairs Department at the company address indicated above.

If you ship the product

Carefully pack and send it prepaid, adequately insured and preferably in the original carton. Attach a postage-affixed letter, detailing the complaint, to the outside of the carton. Do NOT send the product to the Executive or Regional Sales offices. They are NOT equipped to make repairs

Product Service (U.S.A. and Canada)

- 1. Damage requiring service—The unit should be serviced by qualified service personnel if:
 - (a) The AC power supply cord or AC adaptor has been damaged; or
 - (b) Objects or liquids have gotten into the unit; or
 - (c) The unit has been exposed to rain; or
 - (d) The unit does not operate normally or exhibits a marked change in performance; or
 - (e) The unit has been dropped or the cabinet damaged.
- 2. Servicing—Do not attempt to service the unit beyond that described in these operating instructions. Refer all other servicing to authorized servicing personnel.
- 3. Replacement parts—When parts need replacing ensure the servicer uses parts specified by the manufacturer or parts that have the same characteristics as the original parts. Unauthorized substitutes may result in fire, electric shock, or other hazards.
- 4. Safety check—After repairs or service, ask the servicer to perform safety checks to confirm that the unit is in proper working condition.

The servicer will require all components to service your system. Therefore, should service ever be necessary, be sure to bring the entire system.

Product information

For product information or assistance with product operation:

In the U.S.A., contact the Panasonic Customer Call Center at 1-800-211-7262, or e-mail consumerproducts@panasonic.com, or web site (http://www.panasonic.com).

In Canada, contact Panasonic Canada Inc. Customer Care Centre at 1-800-561-5505, web site (www.panasonic.ca), or an authorized Servicentre closest to you.

Listening caution





Selecting fine audio equipment such as the unit you've just purchased is only the start of your musical enjoyment. Now it's time to consider how you can maximize the fun and excitement your equipment offers. This manufacturer and the Electronic Industries Association's Consumer Electronics Group want you to get the most out of your equipment by playing it at a safe level. One that lets the sound come through loud and clear without annoying blaring or distortion—and, most importantly, without affecting your sensitive hearing.

We recommend you to avoid prolonged exposure to excessive noise.

Sound can be deceiving. Over time your hearing "comfort level" adapts to higher volumes of sound. So what sounds "normal" can actually be loud and harmful to your hearing.

Guard against this by setting your equipment at a safe level BEFORE your hearing adapts.

To establish a safe level:

- •Start your volume control at a low setting.
- •Slowly increase the sound until you can hear it comfortably and clearly, and without distortion.

Once you have established a comfortable sound level:

Set the dial and leave it there.

Taking a minute to do this now will help to prevent hearing damage or loss in the future. After all, we want you listening for a lifetime.

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.

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DATE OF PURCHASE __ DEALER NAME _____ DEALER ADDRESS ____

TELEPHONE NUMBER

The model number and serial number of this product can be found on either the back or the bottom of the unit. Please note them in the space provided below and keep for future reference.

MODEL NUMBER _

SERIAL NUMBER _

Apparatus Claims of U.S. Patent Nos. 4,631,603, 4,577,216, and 4,819,098, licensed for limited viewing uses only.

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