

DVD/VCR Home Theater Sound System

Operating Instructions

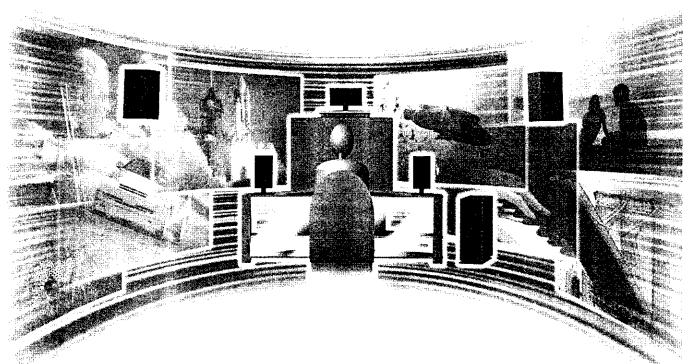


SC-HT790V SC-HT800V Model No. SC-HT810V



DYD

VCR



ALL MILLING

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



The illustration shows SC-HT810V.



SUPER DRIVE Omnivision

For U.S.A.



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

Region number supported by this unit

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

- The region number of this unit is "1".
- This unit will play DVD-Video marked with labels containing "1" or "ALL".







OTHERS

The warranty for the U.S.A. is on page 62.



Dear customer

Thank you for purchasing this product.

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



These operating instructions are applicable to models. SC-HT790V, SC-HT800V and SC-HT810V 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.

Accessories



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

(Only for U.S.A.)

To order accessories contact 1-800-332-5368 or the website (http://www.panasonic.com).

(Only for Canada)

To order accessories, call the dealer from whom you have made your purchase.

- Remote control (EUR7623X50)
- 2 Batteries for remote control
- 2 AC power supply cord (RJA0065-1D)
- 1 AM loop antenna (N1DAAAA00002)
- FM indoor antenna (RSA0007-J)
- 1 Video cable (RJL1P016B15A)
- \square 1 75 Ω coaxial cable (VJA1125)
- System cable [⁻] 1 (K1HA25HA0001)
- 5 Speaker cables (RFA2163-J) 3×4-m (13-foot) cables 2×10-m (33-foot) cables
- Sheet of speaker-cable stickers
- Antenna plug 1 (K2RC021B0001)

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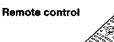






System SC-HT790V SC-HT800V SC-HT810V Main unit SA-HT790V SA-HT800V SA-HT810V Front SB-FS803 SB-FS803 SB-FS700 speakers Center SB-PC803 **SB-PC803** SB-PC700 speaker Surround SB-FS803 SB-FS803 SB-FS801A speakers Active SB-WA312 SB-WA310 SB-WA330 subwoofer

The remote control

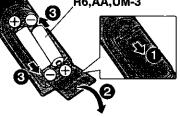




●Insert so the poles (+ and -) match those in the remote control.

Do not use rechargeable type batteries.

R6.AA.UM-3



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 Use

Aim at the sensor (- page 9), avoiding obstacles, at a maximum range of 7 m (23 feet) directly in front of the unit.

User memo:

DATE OF PURCHASE	
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

ROT6951 2

Note

The included AC power supply cord is for use with this unit only. Do not use it with other equipment.

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DVD

VCR

RADIC

2.43

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CAUTION!

DO NOT INSTALL OR PLACE THIS UNIT IN A BOOKCASE. BUILT-IN CABINET OR IN ANOTHER CONFINED SPACE. ENSURE THE UNIT IS WELL VENTILATED. TO PREVENT **RISK OF ELECTRIC SHOCK OR FIRE HAZARD DUE TO** OVERHEATING, ENSURE THAT CURTAINS AND ANY **OTHER MATERIALS DO NOT OBSTRUCT THE** VENTILATION VENTS.

CAUTION:

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

WARNING:

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

CAUTION!

THIS PRODUCT UTILIZES A LASER. USE OF CONTROLS OR ADJUSTMENTS OR PERFORMANCE OF PROCEDURES OTHER THAN THOSE SPECIFIED HEREIN MAY RESULT IN HAZARDOUS **RADIATION EXPOSURE.** DO NOT OPEN COVERS AND DO NOT REPAIR YOURSELF.

REFER SERVICING TO QUALIFIED PERSONNEL.

Note to CATV system installer:

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

<i></i>	
CAUTION	- LASER RADIATION WHEN OPEN. DO NOT STARE INTO BEAM. FOA 21 OFR / Case II
CAUTION	 VISIBLE AND INVISIBLE LASER RADIATION WHEN OPEN. ANONO EXPOSURE TO BEAM. RECOULDS 1 / Class 36
VARNING	 SYNLIG OCH OSYNLIG LÄSERSTRÄLMING NÄR DENNA DEL ÄR OPPNAD. BETRAKTA EJ STRÄLEN.
ADVARSEL	 SYNUG OG USTNUG LASERSTRÄLING VED ÅBNING. UNDGÅ UDSJETTELSE FOR STRÄLING.
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VAROI	AMATTAESSA OLET ALTTIMA NÄKYVÄÄ JA NÄKYMÄTÖN LASEPSÄTEHYLLE – ÄLÄ KATSO SÄTEESEEN.
VORSICHT	 SICHTBARE UND UNSICHTBARE LASERSTRAM, UNG, WENN ABDECKUNG GEÖFFNET. NICHT DEM STRAHL AUSSETZEN
ATTENTION	- RAYONNEMENT LASER VISIBLE ET WYTSIBLE EN CAS D'OUVERTURE EUPOSITION DANGEREUSE AU FAISCEAU
法罪	- 行开时有可见承不可见是无相别。是无自无原用的,
tt #	 ここを聞くと可視量び不可視レーゲー光が出ます。 ビームを見たり、触れたりしないで下さい。 ROLX50054

(Inside of product)

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.



CAUTION: TO REDUCE THE RISK OF ELECTRIC SHOCK, DO NOT REMOVE SCREWS. INSIDE.

NO USER-SERVICEABLE PARTS 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.

Avoid use or placing highly magnetic devices (Speakers etc.) or devices that emit strong electro-magnetic waves (mobile telephones etc.) near the main unit.

- The above may result in problems with audio and video, and recorded content may be lost.
- ·Be extra cautious when you are using a plasma television, keeping these devices as far away as possible.

Stacking **RQT6951**

Place the unit in a horizontal position, and do not place anything heavy on it.

Before moving the unit, ensure the disc tray and video cassette slot is empty. Failure to do so will risk severely damaging the disc, video cassette tape and the unit.

- •Operating while there is condensation in the unit or on the cassette tape may cause the tape to catch upon the cylinder resulting in the tape being cut, or not being able to remove the cassette tape from the unit. The unit also may not work properly if the unit's cylinder or heads have been damaged.
- •Wait 1-2 hours for condensation to evaporate (do not operate the unit during this time).

4

IMPORTANT SAFETY INSTRUCTIONS

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

- 1) Read these instructions.
- 2) Keep these instructions.
- 3) Heed all warnings.
- 4) Follow all instructions.
- 5) Do not use this apparatus near water.
- 6) Clean only with dry cloth.
- 7) Do not block any ventilation openings. Install in accordance with the manufacturer's instructions.
- Do not install near any heat sources such as radiators, heat registers, stoves, or other apparatus (including amplifiers) that produce heat.
- 9) Do not defeat the safety purpose of the polarized or groundingtype plug. A polarized plug has two blades with one wider than the other. A grounding-type plug has two blades and a third grounding prong. The wide blade or the third prong are provided for your safety. If the provided plug does not fit into your outlet, consult an electrician for replacement of the obsolete outlet.

- 10) Protect the power cord from being walked on or pinched particularly at plugs, convenience receptacles, and the point where they exit from the apparatus.
- 11) Only use attachments/accessories specified by the manufacturer.
- 12) Use only with the cart, stand, tripod, bracket, or table specified by the manufacturer, or sold with the apparatus. When a cart is used, use caution when moving the cart/apparatus combination to avoid injury from tip-over.



- 13) Unplug this apparatus during lightning storms or when unused for long periods of time.
- 14) Refer all servicing to qualified service personnel. Servicing is required when the apparatus has been damaged in any way, such as power-supply cord or plug is damaged, liquid has been spilled or objects have fallen into the apparatus, the apparatus has been exposed to rain or moisture, does not operate normally, or has been dropped.

Tape information

■ Tapes

- •You can use tapes with the VHS and S-VHS marks, but this unit is unable to make full use of the characteristics of S-VHS tapes.
- Break out the tape's tab to prevent accidental erasure. Cover the hole with a double layer of adhesive tape when you want to use the tape for recording again.



S-VHS Quasi Playback (SQPB)

You can play tapes recorded with the S-VHS system, however some noise may occur with some types and this unit cannot take advantage of S-VHS's high resolution. This VCR cannot make S-VHS recordings.

Tape care

Poor quality or damaged tapes can cause the heads to become dirty and malfunction. Store your tapes carefully and discard when they become dirty or damaged.

Never use tapes on which juice has been split or those that are extremely damaged since this will not only cause the heads to become dirty, but will also make the unit malfunction.



Discincimation

Discs that can be played

Discs that can be played		
Disc type	Logo	Indication used in instructions
DVD-RAM	DVD	RAM Shown as
	RAM	"DVD-VR" on the
	RAM4.7	display
DVD-Audio	DVD	
	AUDIO	DVD-A
	AUDIO	
DVD-Video	DVD	
	VIDEO	
	DVD	
	VIDEO	DVD-V
DVD-R		4
	DYD	
	R	
	R4.7	
Video CD	L COMPAG	
		VCD
CD	COMPACT	
	l dise	
	DIGITAL AUDIO	CD
		Including CD text
		-
	+	WMA MP3 JPEG

- •Use discs with the above logos and that conform to specifications. The unit cannot play other discs correctly.
- Do not use irregularly shaped discs (e.g. heart-shaped), as these can damage the unit.
- It may not be possible to play CD-R, CD-RW, DVD-R and DVD-RAM in all cases due to the type of disc or condition of the recording.

Discs that cannot be played

PAL discs (except DVD-Audio), DVD-ROM, CD-ROM, CDV, CD-G, +RW, DVD-RW, CVD, SVCD, SACD, Divx Video Discs, Photo CD, DVD-RAM that cannot be removed from their cartridge, and 2.6-GB and 5.2-GB DVD-RAM.

Disc structure

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

- Track: the smallest division on DVD-Audio, CDs and Video CDs, or a single WMA/MP3 file.
- Chapter: the smallest division on DVD-Video.
- collections of tracks on DVD-Audio and equivalent to Group: folders or albums on data discs.
- Title: the largest division on DVD-Video, usually an entire movie.

Program: the division on DVD-RAM equivalent to a single recording. Picture: a single JPEG file.

- Play list: the largest grouping on a HighMAT disc, or a group of scenes on DVD-RAM.
- Scene: DVD-RAM program sections specified and grouped into play lists on a DVD video recorder.
- Content: covers tracks and pictures on HighMAT discs.

DVD-RAM discs

The DVD-RAM you can play on this unit are those recorded with DVD video recorders, DVD video cameras, personal computers, etc. using Version 1.1 of the Video Recording Format (a unified video recording standard).

- •Remove discs from their cartridges before use and return them when you are finished, making sure that the labels of the disc and cartridge face the same way.
- Some parts of the disc, for example where one program ends and another begins, may not play smoothly.

DVD-R discs

Panasonic DVD-R recorded and finalized (a process that allows play on compatible equipment) on a Panasonic DVD video recorder or DVD video camera are played as DVD-Video on this unit.

CD-R and CD-RW discs

This unit can play CD-R/RW (audio recording disc) recorded with CD-DA, video CD, WMA, MP3, or JPEG. Close the session or finalize (a process that allows play on compatible equipment) after recordina.

See page 23 for more information about WMA, MP3, and JPEG.

HighMAT discs

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

Video systems

NTSC is used.

This unit converts still picture parts of PAL system DVD-Audio to NTSC for play. The picture is compressed to show it in its entirety, but this may cause it to be stretched vertically.

Playing DVDs and Video CDs

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

To clean discs

DVD-Audio, DVD-Video, Video CD, CD

Wipe with a damp cloth and then wipe dry.



DVD-RAM, DVD-R

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

Handling precautions

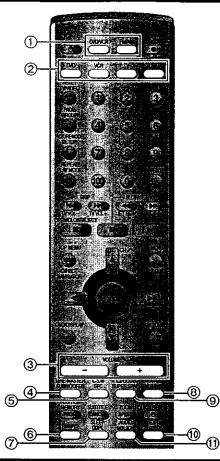
- . Do not write on the label side with a ball-point pen or other writing instrument.
- Do not use record cleaning sprays, benzine, thinner, static electricity prevention liquids or any other solvent.
- Do not attach labels or stickers to discs. (Do not use discs with exposed adhesive from tape or left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



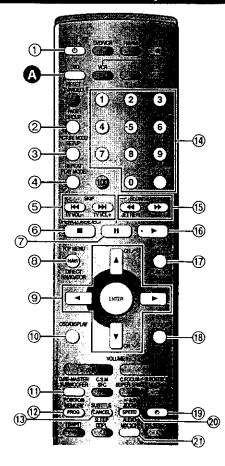
control reference outre

•If SHIFT appears after the button name the function will not work unless you use with [SHIFT] button. Make sure to press [SHIFT] and the button.

Remote control—common buttons



Remote control—DVD operation



1) Main unit selector button
DVD/VCR source button [DVD/VCR]
Switch the source on the main unit between DVD and VCR.
Tuner/band button [FM/AM]
Switch the source on the main unit to TUNER and change the
band.
② Remote control mode selector button
[DVD] [VCR] [TV] [TUNER]
Changes the remote control mode. The button lights once
pressed.
The selected mode is held in memory until you press another
mode selector button.
The mode selector button lights each time you press an
operational control button showing which mode is in use.
③ Volume buttons [VOLUME -, +]
Volume may be lower when playing DVD-Video than when
playing other discs or during television broadcasts. Reduce the
volume before playing other sources or returning to the television
so volume doesn't increase suddenly.
(4) Bass adjust button [SUBWOOFER]
(5) Sound field control button [SFC]
Custom sound memory button [C.S.M] SHIFT
6 Shift button [SHIFT]
To use the functions labeled in orange, press the button while
pressing [SHIFT].
⑦ Dolby Pro Logic button [□□PL]
Sleep timer button [SLEEP] SHIFT
(8) Muting button [MUTING] 48
Seat position button [S.POSITION] SHIFT
Super surround button [SUPER SRND]
Center focus button [C.FOCUS] [SHIFT]
1 Speaker channel button [CH SELECT]
Test signal button ITESTI SUICT 51

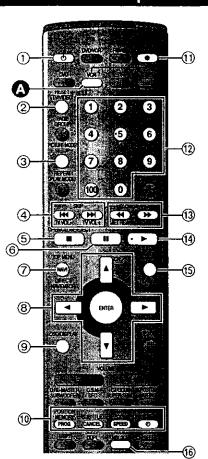
	<u>HIF []</u>
 Down-mix button [MIX 2CH] 	50

0	DVD remote control mode button [DVD] 17
	Switch the remote control mode to DVD. Make sure you press
	before doing DVD operations. When in DVD mode, the [DVD]
	button lights each time you press one of the DVD operation
	buttons indicated below.
1	Power button [0]
_	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.
2	Group button [GROUP] 20
	Still picture select button [PAGE] SHIFT
3	DVD SETUP menu button [SETUP] 17, 32
4	Play mode button [PLAY MODE]
	Repeat mode button [REPEAT] SHIFT
6	Skip buttons [I◀◀, ►► SKIP]
6	Stop button [I] 18
	Open/close button [OPEN/CLOSE/EJECT] SHIFT
	Pause button [[]]
8	Top menu button [TOP MENU] 19
_	Direct navigator button [DIRECT NAVIGATOR]24
9	Cursor buttons $[\blacktriangle, \nabla, \triangleleft, \blacktriangleright]$
_	Enter button [ENTER] 17
	On-screen menu icon button [OSD/DISPLAY]
\odot	Double re-master button [D.RE-MASTER] SHIFT 27
	Position memory button [POSITION MEMORY]
ധ	Cancel button [CANCEL]
0	Subtitle button [SUBTITLE] SHIFT
	Numbered buttons [1–9, 0, ≧10/ENTER]
	Slow/search buttons [◀◀, ►► SLOW/SEARCH]
	Menu button [MENU]
U	Play list button [PLAY LIST]
സ്ത	Return button [RETURN]
60	Quick replay button [QUICK REPLAY]
	Zoom button [ZOOM]
ñ	Soundtrack button [AUDIO] SHIFT
U	Soundtrack button [AUDIO] [SHIFT]

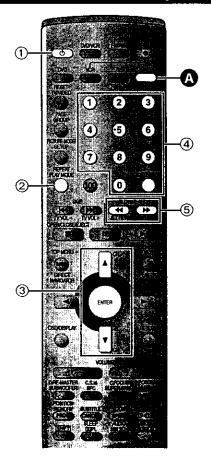


• If SHIFT appears after the button name the function will not work unless you use with [SHIFT] button. Make sure to press [SHIFT] and the button. Remote control—VCR operation





Remote control—TUNER operation



	Switch the remote control mode to VCR. Make sure you press
	before doing VCR operations. When in VCR mode, the [VCR]
	button lights each time you press one of the VCR operation
	buttons indicated below.
\bigcirc	Power button [0]15
~	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.
୭	TV/Video button [TV/VIDEO]16
9	Tape counter reset button [RESET] SHIFT45
ര	Picture mode button [PICTURE MODE]
ลื	index search button [i◄◀, ►► SKIP]41
8	Stop button [II]
9	Cassette eject button [OPEN/CLOSE/EJECT] SHIFT
a	Pause button [II]
	Jet navigator button [NAVI]40
	Cursor buttons $[\blacktriangle, \forall, \triangleleft, \blacktriangleright]$
ø	
	Enter button [ENTER]
	Channel, tracking, and vertical hold buttons
~	[▲ CH∧] [▼ CH∨]35, 36
	On-screen display button [OSD/DISPLAY]45
O	Timer recording buttons
	Timer programming button [PROG]
	Cancel button [CANCEL]
	Tape speed button [SPEED]
~	Timer program standby button [O]
	Recording button [REC]
	Numbered buttons [1-9, 100, 0]
0	Fast-forward/rewind button [◀◀, ►► SLOW/SEARCH]34
	Jet rewind button [JET REW] SHIFT
1	Play button [▶]
	Press and hold for five seconds to start repeat play35
	Menu button [MENU]42
6	Audio button [AUDIO] SHIFT45

- In standby mode, the unit is still consuming a small amount of power.

 ② FM mode button [PLAY MODE]

 ③ Channel buttons [▲ CH∧] [▼ CH∨]

 Enter button [ENTER]

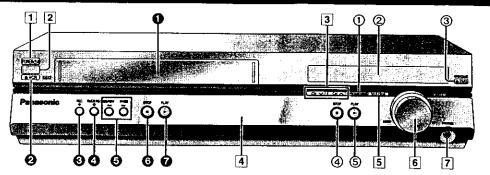
 46

 ④ Numbered buttons [1-9, 0, ≥10/ENTER]

 46

 ⑤ Tuning buttons [◀◀, ▶►]

Main unit and subwoofer







Common buttons

1 Power button [POWER也/I]..... 15 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.

- 2 Remote control signal sensor
- 3 Channel buttons [CHv] [CHA] 36, 46
- 4 Display
- **5** Source selector buttons [SELECTOR] VCR→DVD→FM→AM 1

6 Volume dial [VOLUME DOWN, UP] 18 Volume may be lower when playing DVD-Video than when playing other discs or during television broadcasts. Reduce the volume before playing other sources or returning to the television so volume doesn't increase suddenly.

DVD section

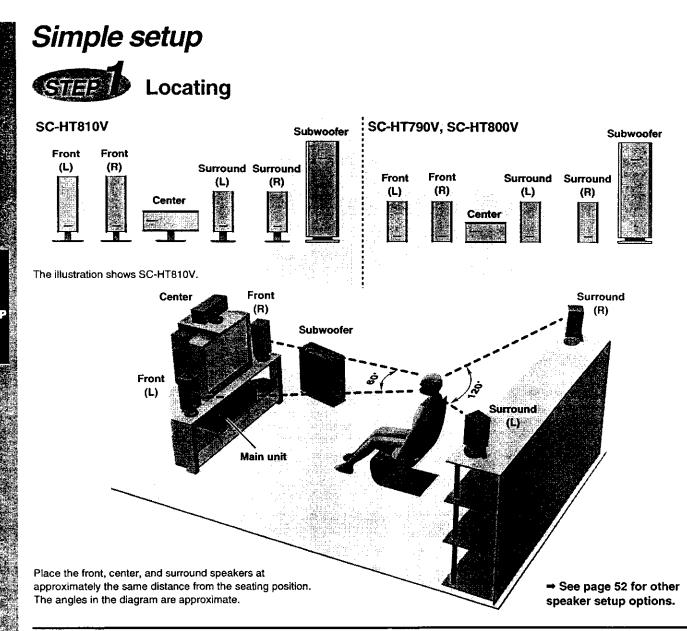
1	Progressive video button [PROGRESSIVE]
2	Disc tray
3	Open/close button [ADVD OPEN/CLOSE]
٩	Stop button [STOP] 18
6	Play button [> PLAY] 18
	VCR section
	Tape slot
0	Tape eject button [≜VCR EJECT]
0	Recording button [REC]
4	Timer recording button [O TIMER REC]
	Fast-forward and rewind buttons
-	[◀◀ ⊕/REW] [▶▶ FF/⊕]
0	Stop button [STOP] 34
Õ	Play button [> PLAY]
_	

Subwoofer

AC supply indicator [AC IN] This indicator lights when the subwoofer is connected to a household AC outlet.

Main	unit di	isplay
------	---------	--------

Image: Constraint of the second se	Image: Second State Image: Second State Image: Second State Image: Second State Image: Second State Image: Second State Image: Second State Image: Second State Image: Second State Image: Second State Image: Second State Image: Second State Image: Second State Image: Second State Image: Second State Image: Second State Image: Second State Image: Second State Image: Second State Image: Second State Image: Second State Image: Second State Image: Second State Image: Second State Image: Second State Image: Second State Image: Second State Image: Second State Image: Second State Image: Second State Image: Second State Image: Second State Image: Second State Image: Second State Image: Second State Image: Second State Image: Second State Image: Second State Image: Second State Image: Second State Image: Second State Image: Second State Image: Second State Image: Second State Image: Second State Image: Second State Image: Second State Image: Second State Image: Second State Image: Second State Image: Second State Image: Second State Image: Second State Image: S
 Common display Dolby Pro Logic indicator	 Play sequence indicator PGM: During program play
Displays play and pause, etc. (3) Title/Group/Chapter/Track number display	Tuner operation Band display Preset indicator Radio broadcast display TUNED: Receiving radio signal ST: Stereo MONO: Forced monaural



•Use only supplied speakers

- Using other speakers can damage the unit and sound quality will be negatively affected.
- Set the speakers up on an even surface to prevent them from falling. Take proper precautions to prevent the speakers from falling if you cannot set them up on an even surface.

Positioning for best effect

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

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

Main unit Note

Keep your speakers at least 10 mm $(1^{3}/32'')$ away from the system for proper ventilation.

Center speaker

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

Subwoofer

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

Leave 10 cm (4'') on the right for the woofer to be effective. Leave 10 cm (4'') at the rear for ventilation.

Notes on speaker use

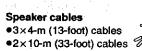
- You can damage your speakers and shorten their useful life if you play sound at high levels over extended periods.
- Reduce the volume in the following cases to avoid damage.
 When playing distorted sound.
- When the speakers are receiving howling from a record player, noise from FM broadcasts, or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

Caution

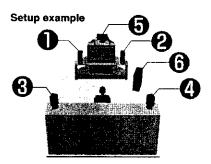
•Use the speakers only with the recommended system. Failure to do so may lead to damage to the amplifier and/or the speakers, and may result in the risk of fire. Consult a qualified service person if damage has occurred or if you experience a sudden change in performance.

 Do not attempt to attach these speakers to walls using methods other than those described in this manual.



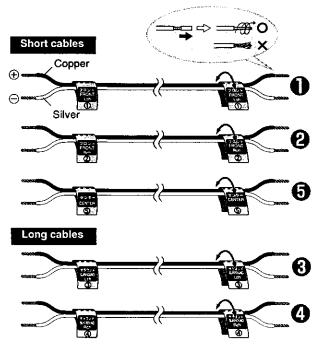


The illustrations show SC-HT810V.

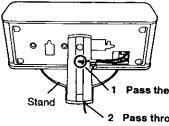


1 Attaching the stickers to the speaker cables

Attach the speaker-cable stickers to make connection easier.



Keeping the cables out of the way (SC-HT810V only) Pass the cables through the holes in the stand to keep them out of the way.



Pass the cable through the hole.

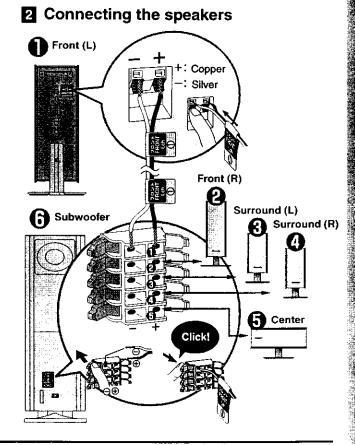
2 Pass through the cutout in the base.

Sheet of speaker-cable stickers



SC-HT790V, SC-HT800V

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



Note

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

Caution

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

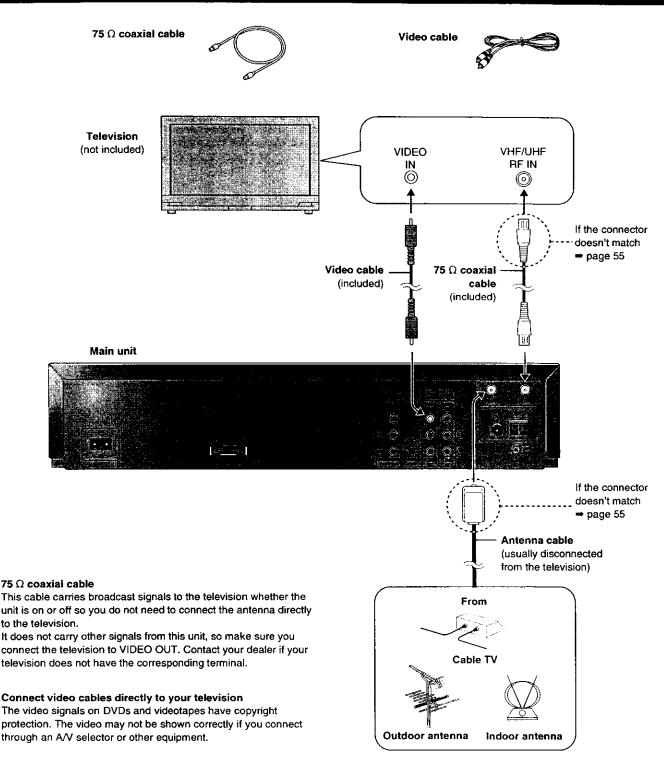




SETÙP



Basic connection



To enjoy cable and satellite television Connection → page 54 Subscribe to a cable or satellite company.

If irregular coloring occurs on your television

The supplied 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.

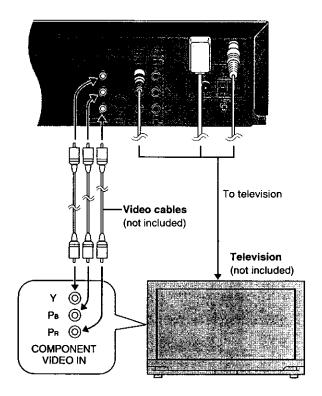
12

SEŤU

For better video from DVD

The following connections are for video from the DVD section only. Make sure you have connected the VIDEO OUT terminal with the television to view video from the VCR section (← paged2), You may need to change the video-input mode on the television to view video from the VCR and DVD sections. Read your television a operating instructions for details.

Connecting a television with COMPONENT VIDEO terminals



COMPONENT VIDEO OUT terminal

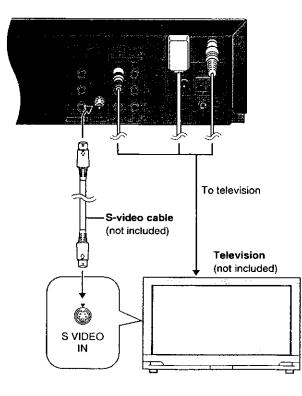
These terminals can be used for either interlace or progressive output and provide a purer picture than the S-VIDEO OUT terminal. Connection using these terminals outputs the color difference signals (Pe/Pn) and luminance signal (Y) separately in order to achieve high fidelity in reproducing colors.

- The description of the component video input terminals depends on the television or monitor (e.g. Y/Pa/Pa, Y/B-Y/R-Y, Y/Ca/Ca). Connect to terminals of the same color.
- ●After making this connection, change the black level for a better picture (→ page 31, Video—Black Level Control).

To enjoy progressive video

- Connect to the component video input terminals on a 480P compatible television. (Video will not be displayed correctly if connected to an incompatible television.)
- •All televisions manufactured by Panasonic and that have 480P input connectors are compatible. Consult the manufacturer if you have another brand of television.

Connecting a television with an S-VIDEO IN terminal



S-VIDEO OUT terminal

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

Note

Connect to a different terminal group than that you used for the video cable (e.g., "VIDEO 2").

Picture from this unit's VCR will not appear when you use the same group input terminal connections because the S-video terminal input takes precedence.



Connecting the subwoofer, antennas, and AC power supply cords

System cable

AM loop antenna

FM indoor antenna

2 AC power supply cords



Connect the AC power supply cord after all other connections are complete.







AM loop antenna Adhesive tape Fix the other end of the antenna Subwoofer Click! where reception is best." AC power supply cord Stand the antenna FM indoor To household AC outlet up on its base. antenna (AC 120 V, 60 Hz) Keep loose antenna cord away from other wires and cords. Main unit (1 System cable Catch up To disconnect Press the catch and pull out. White Red Click! AC power supply cord Black To household AC outlet (AC 120 V, 60 Hz) Catch to the right Unscrew the terminal To disconnect with a Phillips-head Press the catch screwdriver. and pull out.

AC power supply cords

Connect both AC power supply cords to enjoy all the features of this system.

Conserving power

This unit consumes a small amount of power, even when it is turned off. The amount of power used depends on the display setting (\Rightarrow page 44):

BRIGHT: 3.7 W DIM: 3.5 W OFF: 2.4 W Audio memory backup

To save power when the unit is not to be used for a long time, unplug it from the household AC outlet.

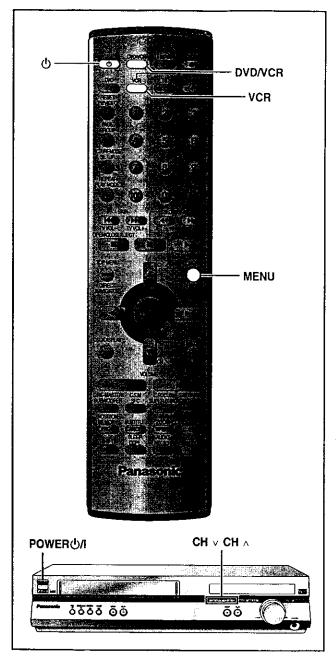
Remember to reset the radio stations and any other memory items before using the unit again.

Information you enter into the unit's memory remains intact for up to 2 weeks after the subwoofer's AC power supply cord is disconnected.

SETU



Plug-in Auto Tuning



After plugging the unit into your household AC outlet and pressing [0] to turn the unit on for the first time, the unit automatically tunes in all the channels it can receive and sets the clock.

The unit determines the type of transmission, TV or CATV, as follows:

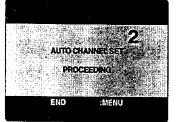
TV: when there are less than 5 CATV channels. CATV: when there are 5 or more CATV channels.

Preparation

- •Confirm that the antenna is connected correctly.
- •Turn on the television and select the video input for the VCR.
- Press [VCR] to put the remote control in VCR mode.

Press $[\oplus]$ to turn on the unit.

Plug-in Auto Tuning starts and the unit puts the stations it can receive into channels (\Rightarrow page 43, Channel range).



The unit starts auto clock setting when finished, then displays the time.

Note

If auto tuning stops partway (by changing the source, turning the unit off, or due to a power failure.)

- 1 Disconnect the AC power supply cord on the main unit and then reconnect it.
- 2 Turn on the main unit.

To cancel partway

Press [MENU].

■ To start Plug-in Auto Tuning again (after relocation, for example)

Preparation

- •Press [也] to turn on the unit.
- •Make sure there is no video cassette tape loaded in the unit.
- Press [DVD/VCR] to select "VCR" as the source.
- 1 Press and hold [CH v] and [CH A] on the main unit simultaneously for 3 seconds until the channel changes to "2".



- 2 Disconnect the AC power supply cord on the main unit and then reconnect it.
- 3 Turn on the main unit. Plug-in Auto Tuning restarts.

Antenna system and channel captions all revert to the default values when you perform the procedure above. Reset the timer recording settings. (If necessary reset the clock first. → page 42, CLOCK SET)

■ To set the channels manually (⇒ page 43).

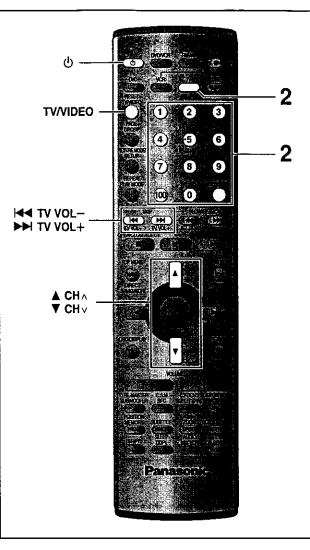
If the unit couldn't set the clock automatically

The MANUAL CLOCK SET screen appears. Set the time manually (+ page 42).

SEÌÙP



STEED Operating the television



TV maker setting

You can control the television by entering the remote control code.

1 Refer the chart below for the code for your television.

2 Aiming the remote control at the television

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

- •Example: To select 01, press [0] → [1].
- 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

- If your television brand is not listed or if the code listed for your television does not allow control of your television, this remote control is not compatible with your television.
- Reenter the codes after you change the batteries.

TV operation

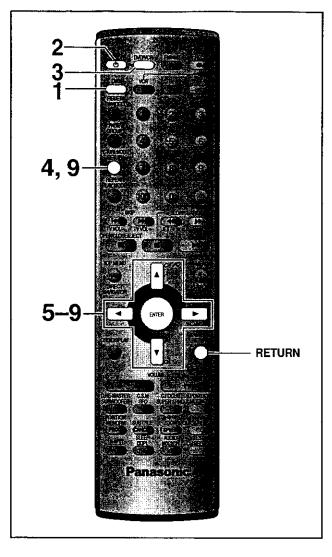
Operation	Buttons
Power on/ standby	[¢]
Remote control TV mode	 [TV] Switch the remote control mode to TV. Press before doing TV operations. When in TV mode, the [TV] button lights each time you press an operation button.
TV/Video switch	[TV/VIDEO]
Selecting channels	 [▲ CH∧] [▼ CH∨] or numbered buttons [1-9, 100, 0, ≧10/ENTER]. ●[≧10/ENTER] is used to confirm channel selection on some televisions manufactured by other companies.
Adjusting volume	

Manufacturer	Code No.	Manufacturer	Code No.
Panasonic	01, 02	PHILIPS	06
FISHER A COMPANY AND	14 ·	PIONEER	02, 10, 19
G.E.	02, 03, 07, 09	QUASAR	02
GOLD STAR	07, 15, 10, 20, 30, 10, 10, 10, 10, 10, 10, 10, 10, 10, 1	RCA - Carlos provides	03, 07, 09, 13, 23, 24, 25
HITACHI	05, 07	SANYO	14
	12	SHARP	08, 21
LXI	03, 06, 07, 10, 14, 15	SONY	04
MAGNAVOX	06, 07, 11, 15, 22	SYLVANIA	06, 07, 15
MITSUBISHI	07, 15, 16, 21	SYMPHONIC	17
NEC	07, 15	TOSHIBA	10, 21
PHILCO	06, 07	ZENITH	18, 20

SETU



DVD QUICK SETUP



To return to the previous screen Press [RETURN].

TV Type

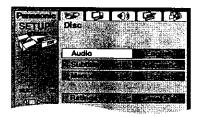
- Select to suit the type of television.
- •Standard (Direct View TV) (factory preset)
- •CRT Projector
- LCD TV/Projector
 Projection TV
- Plasma TV

Answer questions in the QUICK SETUP screen to make some simple DVD settings.

Preparation

Turn on the television and select the video input for the DVD.

- **1** Press [DVD] to put the remote control in DVD mode.
- **2** Press $[\oplus]$ to turn on the unit.
- **3** Press [DVD/VCR] to select "DVD" as the source.
- 4 Press [SETUP] to show the menus.



- **5** Press $[\blacktriangleleft, \triangleright]$ to select "Others" tab.
- 6 Press [▲, ▼] to select "QUICK SETUP" and press [ENTER].
- 7 Press [▲, ▼] to select "Yes" and press [ENTER].
- 8 Press [▲, ▼] to select the item and press [ENTER].
 - ●Menu Language (→ page 31)
 - ●Audio Language (⇒ page 31)
 - Subtitle Language (⇒ page 31)
 TV Type (⇒ below)
 - ●TV Aspect (➡ below)
- 9 Press [ENTER] and then [SETUP] to end the settings.

TV Aspect

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

If you have a regular 4:3 television, you can also select how video on some discs is shown (⇒ page 31, Video—TV Aspect).

- •4:3 Pan&Scan (factory preset)
- Widescreen software is expanded to fill the screen of a 4:3 aspect television (unless prohibited by the producer of the disc).
- •4:3 Letterbox

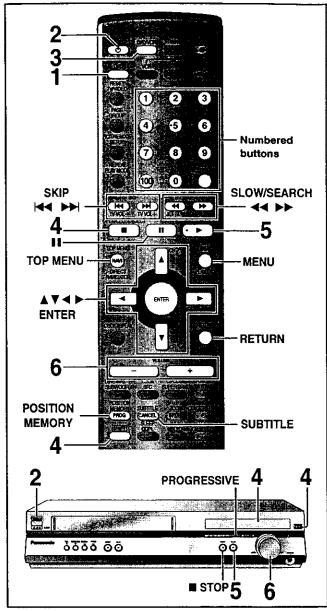
Widescreen software is shown in the letterbox style on a 4:3 aspect television.



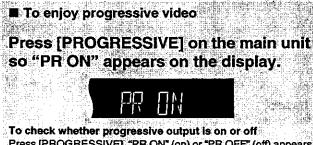




OVD EESIEPER



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



Press [PROGRESSIVE], "PR ON" (on) or "PR OFF" (off) appears on the display.

Note

- The television will be disrupted for a moment but this is normal.
- •Output from this unit is interlace if you have connected to the television through VIDEO OUT or S-VIDEO OUT terminals, irrespective of the setting.
- •When progressive output is on, closed captions will not be displayed.

Preparation

4

Turn on the television and select the video input for the DVD.

- 1 Press [DVD] to put the remote control in DVD mode.
- 2 Press [()] to turn on the unit.
- **3** Press [DVD/VCR] to select "DVD" as

the source.

The following indicator appears when you select DVD.



Press [SHIFT]+[OPEN/CLOSE/EJECT]

to open the disc tray and place the disc.

- ●If the disc contains both audio data (WMA and MP3) and JPEG, check "Mixed Disc—Audio & Stills" in the SETUP menu (⇒ page 31). Select "Stills (JPEG)" or "Audio (MP3/ WMA)".
- Load double-sided discs so the label for the side you want to play is facing up.



5 Press [▶] (play).

The disc tray closes and play begins. It is normal for sound and pictures to take time to start.

WMA] [MP3] [CD] (CD text only) Track information appears on the television. Press [SHIFT]+[SUBTITLE] to turn the display on or off.

6 Adjust the volume.

	dB	-	1/IL	dB	
(Mir	imum)		(Max	(mum)	

Stop	Press [■] (→ page 19, Resume function).				
Pause	Press [11].				
Skip	Press [I◀◀] (backward) or [▶▶] (forward). Group skip [JPEG] Press [▼] (backward) or [▲] (forward).				
Search Press [◀◀] (backward) or [▶▶] (forward). You can turn off the sound (➡ page 31, Audio—A during Search).					
Slow	While paused, press [◀◀] (backward) or [▶▶] (forward).				
Frame- by- frame	While paused, press [◀] (backward) or [▶] (forward). Press and hold to change in succession. Or, press [II] repeatedly for forward frame-by-frame.				

Notes

- ●Press [▶] (PLAY) to restart play.
- •The speed of search and slow-motion increases up to 5 steps. When playing Video CDs
- You cannot move backwards during slow-motion and frameby-frame.
- •Pressing buttons to perform skip, search or slow-motion may take you to a menu screen.

Note

•If "O" appears on the television

The operation is prohibited by the unit or disc.

When a menu appears on the television

DVD-A DVD-V VCD

Press [▲, ▼, ◀, ▶] to select an item and [ENTER] to confirm. Or, press the numbered buttons.

To select a 2-digit number e.g. 23: $[\geqq 10] \Rightarrow [2] \Rightarrow [3]$.

Press [TOP MENU] to show the top menu. Press [MENU] to show a menu. Press [RETURN] to show a menu. VCD

Note

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

Position Memory function

RAM DVDA DVDV VCD CD WMA MP3 (When the elapsed play time is displayed) [JPEG]

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

Position memorized -O = • •

Press again to replace the position.

This position is saved even if you turn the unit off, change the source or open the disc tray. When you turn the unit on, reselect DVD or reinsert the disc whose position you memorized, " \triangleright " flashes on the display. Press [\blacktriangleright] (play) to start play from the memorized position. The position is cleared.

 You can memorize positions on up to five different discs at a time. When you memorize another position, the earliest position is replaced.

Resume function

" \triangleright " flashes on the display when the unit has recorded the position at which you stopped play.

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

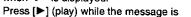
- The position is cleared when you:
- -Turn the unit off.
- -Select another source.
- -Open the disc tray.

Press [I] to clear the position.

Chapter Preview

DVD-V

The following message appears immediately after you press $[\blacktriangleright]$ (play) when " \triangleright " is displayed.



displayed and the beginning portions of

each chapter up to the current one are played.

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

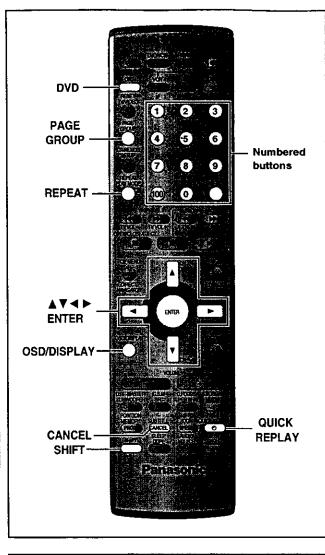
(This feature works only within a title.)

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



ress PLAY to Preview Chapte

(DVD) Convenient muchans



Replaying a scene—QUICK REPLAY

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

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

JPEG: Skip back a few pictures.

During play Press [QUICK REPLAY].

Note

DYD

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

Starting play from a selected item

RAM DVD-A DVD-V VCD CD

Press the numbered buttons.

To select a 2-digit number e.g. 23: [≧10] → [2] → [3].

WMA MP3 JPEG

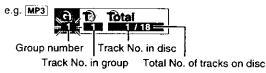
20

Press the numbered buttons then press **[ENTER]**.

e.g. 123: [1] → [2] → (3] → [ENTER].

Selecting groups to play DVD-A WMA MP3 JPEG

1 Press [GROUP].



2 Press $[\blacktriangle, \nabla]$ to select the group number and press [ENTER].

3 Press $[\blacktriangle, \nabla]$ to select the track/ picture number and press [ENTER].

 You can also select the group and track/picture number with the numbered buttons.

DVD-A

- Playing all the groups in succession (⇒ page 25, All group play)
- Playing bonus groups

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

Rotating pictures

JPEG

While a picture is displayed

1 Press [OSD/DISPLAY] until the disc information screen is displayed (⇒ page 29).



- Angle
- 2 Press [◄, ►] to select "Angle" and press $[\mathbf{A}, \mathbf{\nabla}]$ to select the rotation angle.

The picture rotates ninety degrees each time you do this. 0 ↔ 90 ↔ 180 ↔ 270

Selecting still pictures—Page Skip

DVD-A

During play Press [SHIFT]+[PAGE]. The page changes each time you do this.

PAGE 1

This works only when stopped with some discs. RQT6951 . When playing DVD-Audio and you want to start play from a track in a different group, select the group first (= right).

Repeat play

RAM DVD-A DVD-V VCD CD WMA MP3 (When the elapsed play time is displayed) JPEG

During play e.q. DVD-V Press Chapter Title [SHIFT]+[REPEAT]. Each time you do this: RAM. Program→All (Entire disc)→Off During play list play Scene→Playlist→Off DVD-V Chapter → Title* → Off VCD CD Track→All (Entire disc)→Off DVD-A WMA MP3 Track→Group*→Off JPEG

Group→Off

*During all group (DVD-A), program and random play

"All" is displayed.

You can also repeat play of content and group on HighMAT discs.

DVD-A DVD-V VCD CD WMA MP3

To repeat only your favorite tracks/chapters

Start program play (- page 25) and press [SHIFT]+[REPEAT] to display "All".

A-B repeat play

RAM DVD-A DVD-V VCD CD WMA MP3

(When the elapsed play time is displayed) You can repeat a section between points A and B within an item.

1 **During play**

> Press [OSD/DISPLAY] until the unit information screen is displayed

(= page 29).

2 Press $[\blacktriangle, \forall]$ to select the play menu.

A-B Repeat

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

A-B repeat starts.



To return to the normal play Press [ENTER] again.

Marking places to play again

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

You can mark positions so you can return to them easily at a later time.

1 **During play**

> Press [OSD/DISPLAY] until the unit information screen is displayed (= page 29).

2 Press $[\mathbf{A}, \mathbf{\nabla}]$ to select the play menu. e.g. DVD-V



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

RAM only

Then press [▶] to select an asterisk (*).

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

To mark another position

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

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

To recall or erase a marker

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

To mark the eleventh point and beyond

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



2 Press [▲, ♥] to select "11-20".

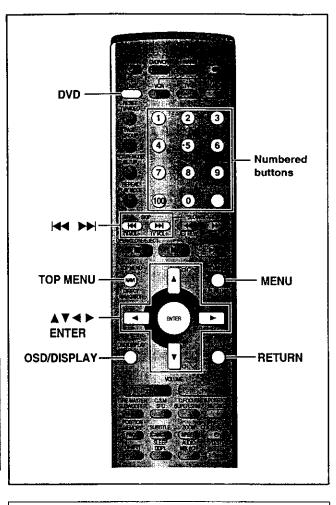
You can select the next group when the current group is full.

Note

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



OVD WWWWE CE CONTRACT OF STATEMENT OVD

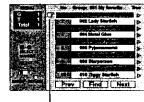


If the disc contains both audio data (WMA and MP3) and JPEG, check "Mixed Disc—Audio & Stills" in the SETUP menu (+ page 31). Select "Stills (JPEG)" or "Audio (MP3/WMA)".

WMA MP3 CD (CD text only) JPEG These menus help you find items you want to start play.

1 Press [TOP MENU].

WMA/MP3 Audio navigation menu JPEG Album display





" rindicates the track currently playing.

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

To show other pages, press $[\blacktriangle, \lor, \triangleleft, \triangleright]$ to select "Prev" or "Next" and press [ENTER].

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

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

Example: finding a track including the word "LOVE".

While the menu is displayed

1

Press [▲, ▼, ◄, ►] to select "Find" and proce [EN



"Find" and press [ENTER].

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

Only uppercase appear but the search also includes lower case. Characters change in alphanumeric order each time you press [\blacktriangle].

- Repeat this step to enter "O", "V", and "E".
- ●Press [I◄◄, ▶►] to skip between A, E, I, O and U.
- Press [◄] to erase a character.
- •You can erase the asterisk (*) to search for the first word in a title.
- •You can enter numbers with the numbered buttons.

3 Press [▶] to select "Find" and press [ENTER].

The search results screen appears.

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

To return to the menu Press [RETURN].

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

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

While the menu is displayed

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



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

To return to the menu Press [RETURN].

Windows Media, and the Windows logo are trademarks, or registered trademarks of Microsoft Corporation in the United States and/or other countries.

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



MPEG Layer-3 audio decoding technology licensed from Fraunhofer IIS and Thomson multimedia. To use the tree screen to find a group

While the menu is displayed

WMA MP3

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

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



You cannot select groups that contain non-compatible files.

2

1

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

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

To return to the menu Press [RETURN].

Note

WMA

- •You cannot play WMA files that are copy protected.
- Noise may occur when playing WMA files.
- •WMA files must have the extension ".WMA" or ".wma".

MP3

- This unit is not compatible with ID3 tags.
- If you play an MP3 track that includes still picture data, it will take some time before the music itself starts playing and the elapsed time will not be displayed during this time. Even after the track starts, the correct play time will not be displayed.
- MP3 files must have the extension ".MP3" or ".mp3".

JPEG

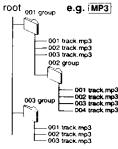
- To view JPEG files on this unit:
- -Take them on a digital camera that meets the DCF (Design rule for Camera File System) standard. Some digital cameras have functions that are not supported by the DCF standard like automatic picture rotation which may render a picture unviewable.
- -Do not alter the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

WMA MP3 JPEG

- Discs must conform to ISO9660 level 1 or 2 (except for extended formats).
- This unit is compatible with multi-session but if there are a lot of sessions it takes more time for play to start. Keep the number of sessions to a minimum to avoid this.

Naming folders and files

At the time of recording, prefix folder and file names with 3-digit numbers in the order you want to play them (this may not work at times).



Playing HighMAT discs

A menu appears after you insert the disc.

Press $[\blacktriangle, \forall, \triangleleft, \triangleright]$ to select then press [ENTER].

When you press [ENTER]:



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



Play list: Play starts

To return to the menu screen Press [TOP MENU].

To return to the menu above the current one Press [RETURN].

To change the menu background Press [OSD/DISPLAY]. The background changes to the one recorded on the disc.

Selecting from the lists While playing

1 Press [MENU].



All by Arlist
 Content Bild
 Content
 Statuare Bild
 Content
 Statuare

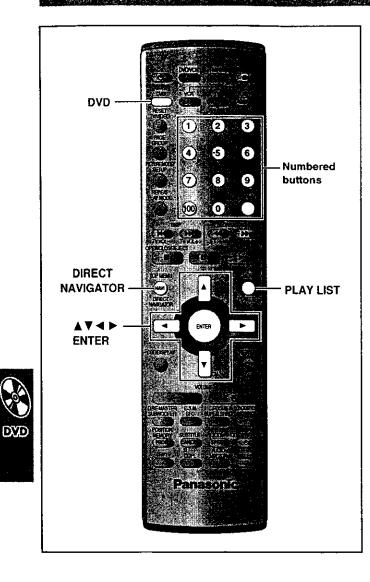
- 2 Press [◀] then [▲, ▼] to switch between the play list, group and content lists.
- 3 Press [▶] then [▲, ▼] to select an item and press [ENTER].

To exit the list screen Press [MENU].



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RAM

Selecting a program to play —DIRECT NAVIGATOR

Use the program list to find programs to play.

1 Press [DIRECT NAVIGATOR].



• Titles appear only if you have entered them.

•You cannot change program and disc titles.

2 Press $[\blacktriangle, \lor]$ to select the program.

The selected program plays in the background. •You can select programs with the numbered buttons. To select a 2-digit number e.g. 23: $[\ge 10] \Rightarrow [2] \Rightarrow [3]$

3 Press [ENTER].

The program being played in the background continues.

To clear the program list Press [DIRECT NAVIGATOR].

Playing a play list

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

1 Press [PLAY LIST].

	1	10117	0.46.36	Clay Penguin
\$ = j		10/24	Sugar Sec.	Ashley at Prom
	1 11	11/29	9-344.44	Formula one
	2	1222		Soccer
4		1223		Basebal
1. C		1223	1990 - C	Neandarthal
Signer .	· · · ·	1224		Cartoone
		12/24	2.794	Trischies
		1225		White Dwarf

2 Press $[\blacktriangle, \triangledown]$ to select the play list.

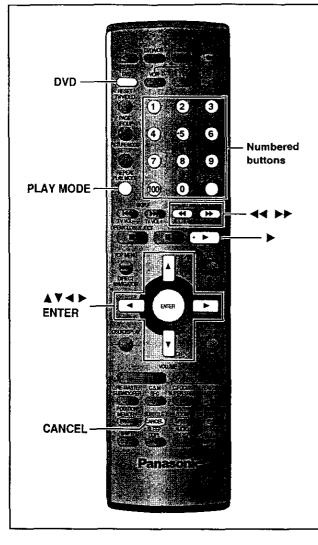
You can select play lists with the numbered buttons.
 To select a 2-digit number
 e.g. 23: [≧10] → [2] → [3]

Press [ENTER] to start play.

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

3

OVD Changing 101 Provide CVD



DVD-A DVD-V VCD CD WMA MP3

Common procedures for All group, Random and Program play

While stopped

Press [PLAY MODE].

Each time you press the button:

All group (DVDA) → Program → Random.

DVD-A

If you select bonus groups, you will have to enter a password (+ page 20).

Note

Disable HighMAT disc play to use random and program play. 1 In the SETUP menu, set "HighMAT" to "Disable"

- (+ page 31).
- 2 Reinsert the disc and perform the necessary operations.

All group play

DVD-A

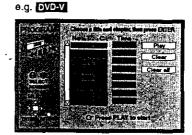
The unit plays tracks in all the groups on a disc.

Press [▶] (play).

Program play

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

1 Press the numbered buttons to select a group, title, track, or chapter

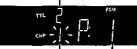


(WMA MP3 then press [ENTER]).

- Repeat this step to program other items.
- •To select an item using the cursor buttons
- Press [ENTER] and $[\blacktriangle, \nabla]$ to select an item, then press [ENTER] again to register.

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

Title No.



Chapter No. Program No.

2 Press [▶] (play).

Changing the program

- Press [▲, ▼] to select an item.
- -To change an item, repeat step 1.
- -To clear an item, press [CANCEL] (or select "Clear" and press [ENTER]).
- Press [◄◄, ►►] to skip 8 lines at a time.

To clear the whole program

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

Note

- •The program is cleared when you switch the unit to standby, open the disc tray, select another source.
- DVD-V WMA MP3

Times are not displayed while programming.

Random play

DVD-A DVD-V

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

DVD-A

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





e.g. DVD-V

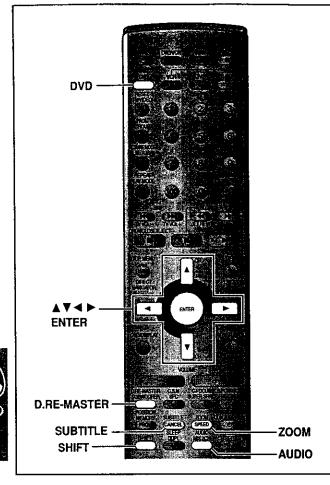


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"--" or "---" is displayed instead of the language number in circumstances such as when no language is recorded on the disc.

Signal type/data

LPCM/PPCM/DDigital/DTS: Signal type k (kHz): Sampling frequency b (bit): Number of bits ch (channel): Number of channels Example: .1ch .1: Low frequency effect (not displayed if there is no 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

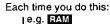
Soundtracks

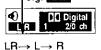
RAM DVD-A DVD-V VCD

During play

Press [SHIFT]+[AUDIO].

RAM VCB





DVD-A Soundtrack playing



Soundtrack selected

DVD-V

The number changes each time you do this:



Number of channels (= left) Audio language

- . You can also use this button to turn the vocals on and off on karaoke discs. Read the disc's instructions for details.
- •Play restarts from the beginning of the soundtrack when playing DVD-Audio and DVD-RAM 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. The soundtrack currently playing is number 1.

Subtitles

DVD-A (Motion picture parts only) DVD-V:

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

FAM: You can turn the subtitles on and off.

During play Press [SHIFT]+[SUBTITLE].

The number changes each time you do this.



- In some cases, the subtitle language is not changed to the selected one immediately.
- Refer to "Audio/Subtitle language" (→ page 29) for language abbreviations.
- . If the subtitles overlap closed captions recorded on discs, turn the subtitles off.

To clear/display the subtitles

- Press [SHIFT]+[SUBTITLE]. 1
- 2 Press [>]. (DVD-A DVD-V)
- Press [▲, ▼] to select "OFF" or "ON". 3
- Changing the position and brightness of the subtitles (DVD-A DVD-V)
- 1 While the subtitle icon is on the screen, press [◀, ►] to highlight "Subtitle Position" or "Subtitle Brightness". 2 Press [▲, ▼] to adjust.
- 0 1 0 Subtitle position

Subtitle brightness

- Adjust position between 0 and -60 in 2 unit steps.
- For brightness, select "Auto" so the brightness adjusts
- automatically against the background, or a level between 0 and -9

Variable Zoom function

RAM DVD-A (Motion picture parts only) DVD-V VCD

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

Preparation

Change the setting "TV Aspect" to suit your television (→ page 31).

During play Press [ZOOM] to select the preset aspect ratio.



The zoom ratio changes each time you press the button.

Zoom - 4:3 Standard

The popup shows the video format suited to the ratio.

Each time you press the button:

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

Cinemascope2←Cinemascope1←American Vista

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

To restore the original ratio

Press [ZOOM] until the ratio returns to 1.00.

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

Making fine adjustments to the zoom ratio

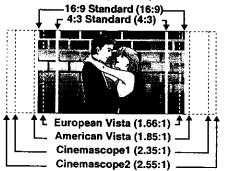
While the ZOOM icon is displayed

Press [▲,▼].

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

Screen size

Movies are made using a variety of screen sizes.



Double re-master—Enjoying more natural sound

RAM DVD-A DVD-V CD

Discs recorded with 2-channel LPCM at 44.1 kHz or 48 kHz This feature gives you a more natural sound by adding the higher frequency signals not recorded on the disc.

WMA MP3

Discs recorded at 44.1 kHz or 48 kHz

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

During play Press [SHIFT]+[D.RE-MASTER].



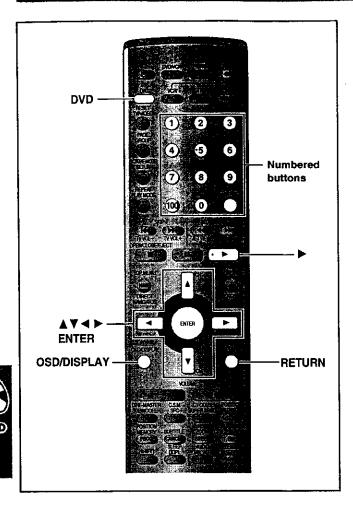
Output sampling frequency

Each time you press the button:

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



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

On-Screen Menu Icons contain information about the disc or unit. These menus allow you to perform operations by changing this information.

Common procedures

Press [OSD/DISPLAY].

Each time you press the button: → Disc information (→ page 29)

↓ Progress indicator (➡ right)

↓ ↓

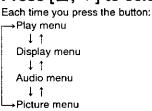
Unit information (→ page 29)

-Original display

Unit information only

2

While the leftmost icon is highlighted **Press** $[\blacktriangle, \forall]$ to select the menu.



- Press $[\blacktriangleleft, \blacktriangleright]$ to select the item.
- Press $[\blacktriangle, \forall]$ to select the setting.

- Change items with "▲" or "▼" above and below with [▲, ▼] (press [ENTER] if the setting doesn't change).
- Change numbered items with the numbered buttons and press [ENTER].
- •Read the following explanations for other items.
- Depending on the condition of the unit (playing, stopped, etc.) and the type of software, there are some items that you cannot select or change.

To clear the menus

Press [RETURN] until the menus disappear.

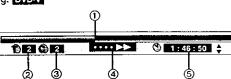
To change the position of the icons

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

eis

Progress indicator

Indicates how far you have played through an item. e.g. DVD-V



- 1) Current position RAM DVD-A DVD-V VCD CD WMA MP3
- 2 PG: Program number RAM
 - PL: Play list number RAM
 - T: Title number DVD-V
 - Track number VCD CD
 - G: Group number DVD-A WMA MP3 JPEG
- T: Track number in group DVD-A WMA MP3
 C: Chapter number DVD-V
 - P: Picture number JPEG
- ④ Condition play, pause, or slow/search RAM DVD-A DVD-V VCD CD WMA MP3 Play speed (⇔ below)
- (5) Changing the time display [RAM] [DVD-A] [DVD-A] VCD] (CD] Press [▲, ▼] to show the elapsed play time or remaining time for the program, play list, track or title (or chapter during program and random play).
 Elapsed play time [WMA] [MP3]

(display only, cannot be changed)

Changing play speed

DVD-A (Motion picture part) DVD-V (Dolby Digital only) You can slow down or speed up play.

During play Press [◀] (slower) or [▶] (faster).

There are five speeds: $\times 0.8 \leftrightarrow \times 0.9 \leftrightarrow \times 1.0$ (normal speed) $\leftrightarrow \times 1.2 \leftrightarrow \times 1.4$

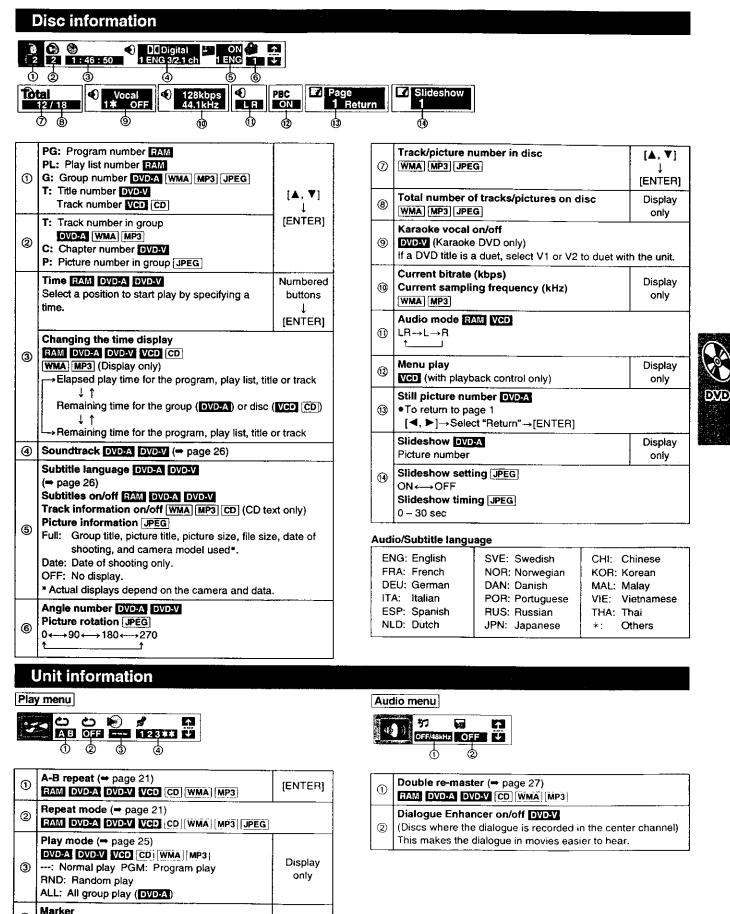
After you change the speed, output is in stereo. Sound is stereo as long as "×1.0" is orange. To return to normal play (surround sound), press [▶] (play). Normal play is also restored when you return the speed to ×1.0 and clear the progress indicator.

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④

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

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

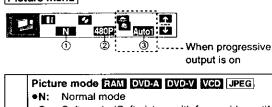


🗕 page 21

Unit information

Display menu 1 Normal w 5. Bit ☆ x1.00 0 1 0 OFF Φ ් ٩ ٩ ් 4:3 Aspect RAM DVD-A DVD-V VCD UPEG Select how to show images made for 4:3 aspect screens on a 16:9 aspect television. •Normal: Laterally stretches images made for a 4:3 screen. • Auto: Expands suitable 4:3 letterbox images to fill more of the screen. Other images appear in full in the center of the screen. •Shrink: Images appear in the center of the screen. •Zoom: Expands all images to fill the screen. If your television has a similar feature, use it instead for a better effect. Zoom (- page 27) RAM DVD-A DVD-V. VCD To select preset aspect ratio Press [ENTER] and then [◀, ▶] to select. Press [ENTER] to 2 finish. Making fine adjustments to the zoom ratio [▲, ▼] Subtitle position/Subtitle brightness (⇒ page 26) 3 DVD-A DVD-V Bitrate display on/off RAM DVD-A (Motion picture parts only) DVD-V VCD DVD During play: shows the average bitrate (approximate values) of the video being played While paused: shows the data volume of the frame and type of picture (= page 59, Glossary-I/P/B) 9.438 Mbps 🕨 4 [◀, ▶] A record of bitrates for Current bitrate a sampling period. Average bitrate OSD brightness (-3 to +3) 6 Adjust the brightness of the on-screen displays.

Picture menu



Θ	 Soft mode (Soft picture with fewer video artifacts) F: Fine mode (Details are sharper) C1: Mellows images and enhances detail in dark scenes C2: Sharpens images and enhances detail in dark scenes U1/U2: User mode (→ below)
2	Video output mode RAM DVD-A DVD-V VCD JPEG •4801: Interlace video •480P: Progressive video
3	Transfer mode FAM DVD-A DVD-V VCD Select the method of conversion for progressive output to suit the type of material being played. •Auto 1 (normal): for viewing film material •Auto 2: for viewing film material (the same as Auto 1, but able to convert 30-frame-per-second progressive video)

•Video: for video material

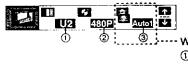
To change the user mode

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

Ut

Image: Contrast (-7 to +7) Image: Contrast between light and dark parts of picture.	of the
④ Increases the contrast between light and dark parts of	of the
(5) Brightness (0 to + 15) Brightens the picture.	
 Sharpness (~7 to +7) Adjusts the sharpness of the edges of the horizontal 	I lines.
\bigcirc Color (-7 to +7)Adjusts the shade of the picture's color.	
 (8) Gamma (0 to +5) Adjusts the brightness of dark parts of the picture. 	

U2



потеят 30

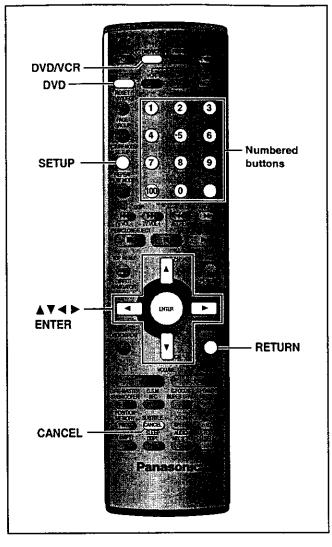
This chart shows the settings for this unit. Change the settings to suit your preferences and to suit the unit to the environment in which it is being used. These settings are retained in memory until they are changed, even if the unit is turned off. See page 32 for details on menu operation.

•Underlined items are the factory preset.

Menus	Items	Options				
Disc	Audio 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 32).				
	Subtitle 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 Choose the preferred language for disc menus.	English French Spanish Other ****				
	 Ratings (→ page 33) 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 levels recorded on them. 	Setting ratings (When level 8 is selected) 8 No Limit: All DVD-Video can be played. 1 to 7: Prohibits play of DVD-Video with corresponding ratings recorded on them. 0 Lock All: Prohibits play of all DVD-Video. Changing ratings (When level 0–7 is selected) Unlock Player Change Level				
Video	TV Aspect (→ page 17)	Change Password Temporary Unlock <u>4:3 Pan&Scan</u> 4:3 Letterbox 16:9				
	Choose the setting to suit your television and preference. TV Type (= page 17) Select to suit the type of television.	Standard (Direct View TV) CRT Projector LCD TV/Projector Projection TV Plasma TV				
	Still Mode Specify the type of picture shown when paused.	Automatic Field Frame				
	Black Level Control Change the black level of the picture if you connected a television through the COMPONENT VIDEO OUT terminals.	Lighter: When connected to a TV through the VIDEO OUT or S-VIDEO OUT terminal. Darker: When connected to a TV through the COMPONENT VIDEO OUT (Y/Ps/Ps) terminals.				
Audio	Speaker Setting (→ page 33) Set the delay time for your center and surround speakers.	Multi-channei Center: <u>0</u> /1.3/2.6/3.9/5.3 ms Surround (L/R): <u>0</u> /5.3/10.6/15.9 ms				
\mathbf{v} ,	Dynamic Range Compression (Dolby Digital only) Change the dynamic range for late night viewing.	Off On: For clear dialog when listening at low volume.				
	Audio during Search Choose whether to have sound during search.	<u>On</u> Off This feature doesn't work for some discs.				
Display	Menu Language Choose the preferred language for these menus and the on- screen messages.	<u>Englísh</u> Français Español				
	On-Screen Messages Choose whether to show on-screen messages or not.	<u>Qn</u> Off				
Others	HighMAT Play HighMAT discs as HighMAT discs, or as regular WMA/ MP3/JPEG discs. (Reload the disc for the setting to be effective.)	Enable: Play HighMAT discs as HighMAT discs. Disable: Play HighMAT discs as regular WMA/MP3/JPEG discs.				
	Mixed Disc—Audio & Stills Select the type of file played on discs containing both JPEG and WMA/MP3. (Reload the disc for the setting to be effective.)	<u>Audio (MP3/WMA)</u> Stills (JPEG)				
	DVD-Video Mode Select how to play pictures contained on some DVD-Audio. The setting returns to "Off" when you remove the disc, turn the unit off or change the source.	<u>Off</u> : DVD-Audio are played as DVD-Audio. On: You can play DVD-Video content on DVD-Audio.				
	QUICK SETUP (- page 17) Answer questions to make basic settings.	Yes (Menu language, Audio language, Subtitle language, TV type, TV aspect) No				



DVD Gimieline statimer.



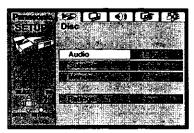
Common procedures

See page 31 for menu and option details.

Preparation

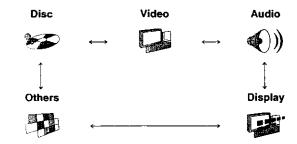
Press [DVD] to put the remote control in DVD mode.
 Press [DVD/VCR] to select "DVD" as the source.

1 Press [SETUP] to show the menus.



2 Press $[\blacktriangleleft, \blacktriangleright]$ 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 [SETUP].

Abkhazian:	6566	Chinese:	9072	Hausa:	7265	Lithuanian:	7684	Romanian:	8279	Telugu:	8469
Afar:	6565	Corsican:	6779	Hebrew:	7387		7775	Russian:	8285	Thai:	8472
Afrikaans:	6570	Croatian:	7282	Hindi:	7273	Malagasy:	7771	Samoan:	8377	Tibetan:	6679
lbanian:	8381	Czech:	6783	Hungarian:	7285		7783	Sanskrit:	8365	Tigrinya:	8473
meharic:	6577	Danish:	6865	Icelandic:	7383	· ·	7776	Scots Gaelic:	7168	Tonga:	847
rabic:	6582	Dutch:	7876	Indonesian;	7378	Maitese:	7784	Serbian:	8382	Turkish:	848:
menian:	7289	English:	6978	Interlingua:	7365	Maori:	7773	Serbo-Croatian:	8372	Turkmen:	847
ssamese:	6583	Esperanto:	6979	Irish:	7165	Marathi:	7782	Shona:	8378	Twi:	848
ymara:	6588	Estonian:	6984	Italian:	7384	Moldavian:	7779	Sindhi:	8368	Ukrainian:	857
zerbaijani:	6590	Faroese:	7079	Japanese:	7465	Mongolian:	7778	Singhalese:	8373	Urdu:	858
Bashkir:	6665	Fiji:	7074	Javanese:	7487	Nauru:	7865	Slovak:	8375	Uzbek:	859
Basque:	6985	Finnish:	7073	Kannada:	7578	Nepali:	7869	Slovenian:	8376	Vietnamese:	867
Bengali; Bangla	a:6678	French:	7082	Kashmiri:	7583	Norwegian:	7879	Somali:	8379	Volapük:	867
Bhutani:	6890	Frisian:	7089	Kazakh:	7575	Oriya:	7982	Spanish:	6983	Welsh:	678
lihari:	6672	Galician:	7176	Kirghiz:	7589	Pashto, Pushto:	8083	Sundanese:	8385	Wolof:	877
reton:	6682	Georgian:	7565	Korean:	7579	Persian:	7065	Swahili:	8387	Xhosa:	887
Bulgarian:	6671	German:	6869	Kurdish:	7585	Polish:	8076	Swedish:	8386	Yiddish:	747
Burmese:	7789	Greek:	6976	Laotian:	7679	Portuguese:	8084	Tagalog:	8476	Yoruba:	897
yelorussian:	6669	Greenlandic:	7576	Latin:	7665	Punjabi:	8065	Tajik:	8471	Zulu:	908
ambodian:	7577	Guarani:	7178	Latvian, Lettish:	7686	Quechua:	8185	Tamil:	8465		
Catalan:	6765	Gujarati:	7185	Lingala:	7678	Rhaeto-Romance:	8277	Tatar:	8484		

Entering a password (Ratings)

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

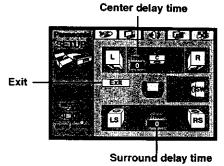
- 1 Input a 4-digit password with the numbered buttons and press [ENTER].
 - If you enter a wrong number, press [CANCEL] to erase it before you press [ENTER].
 - The lock symbol appears closed to show the rating is locked.
- Do not forget your password.
- 2 Press [ENTER] to confirm the 4 digits.

1.1.7.4.6.7.6.6.2.4.5.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1	
Now, when you insert a DVD-Video that exceeds the	ratings
limit you set, a message appears on the television.	- 1912
Follow the on-screen instructions.	

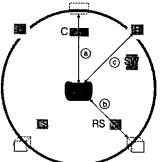
Changing the delay time (Speaker Setting)

(Effective when playing multi-channel discs)

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.



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





Values

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

(a) Center speaker

Difference	Setting		
Approx. 50 cm (11/2 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

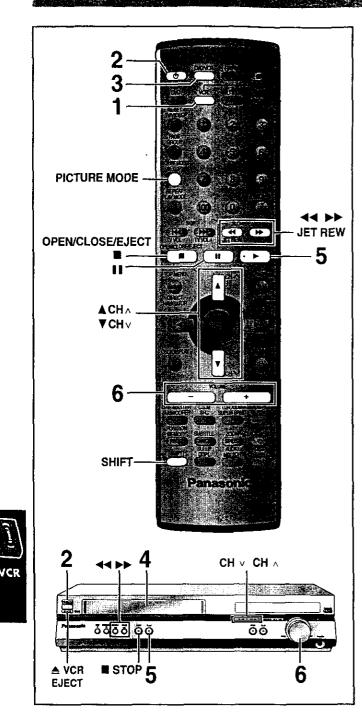
Difference	Setting		
Approx. 200 cm (6 feet)	5.3 ms		
Approx. 400 cm (12 feet)	10.6 ms		
Approx. 600 cm (18 feet)	15.9 ms		

When you are finished

Press [▲, ▼, ◄, ▶] to select "Exit" and press [ENTER].



VCR Playierdie

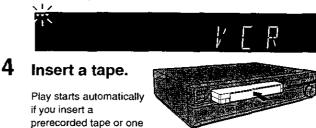


Preparation

Turn on the television and select the video input for the VCR.

- **1** Press [VCR] to put the remote control in VCR mode.
- **2** Press [0] to turn on the unit.
- **3** Press [DVD/VCR] to select "VCR" as the source.

The following indicator appears when you select VCR.



that has had its tab removed.

5 Press [▶] (play).

6 Adjust the volume.

Stop	Press [II].				
Fast-forward and rewind	While stopped, press [◄◄] (backward) or [▶▶] (forward).				
Jet rewind	While stopped, press [SHIFT]+[◄◀ JET REW].				
Cue and review	During play, press [◀◀] (backward) or [▶▶] (forward). Or Press and hold during play. Play restarts when you release the button.				
Jet search	During play, press [<] (backward) or [>>] (forward) twice.				
Pause	Press [II]. Press [II] or [▶] (play) to restart.				
Slow	Press and hold [11] for about two seconds.				
Eject	Press [VCR EJECT] on the main unit or [SHIFT]+[OPEN/CLOSE/EJECT] on the remote control.				

Note

- ●Press [▶] (play) to restart play.
- •You can fast-forward and rewind while using another source.
- The tape counter does not appear during Jet rewind.
- •The tape moves at high speed during fast-forward, rewind, and jet rewind so the unit will make a noise. Also, it takes some time for the tape to stop after you press [**I**].
- •There is no sound during cue, review, jet search, pause, and slow.
- •Cue, review, jet search, and slow stop after 10 minutes and pause after 5 minutes.
- The picture during cue, review, and jet search may be disrupted or otherwise affected on some televisions. During jet search at 35 times normal speed through EP or VP recordings, the picture may scroll vertically with some televisions. Change to 27-times normal speed if this occurs (= page 44).
- •You can eject tapes when the unit is in standby mode. It switches back to standby once it ejects the tape.
- •You cannot eject tapes when the VCR is in timer recording standby or actually recording.

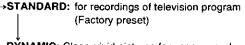
Picture mode—Changing picture quality

You can change the quality of the picture to suit the material you are playing.

Press [PICTURE MODE].



Each time you press the button:



DYNAMIC: Clear, vivid pictures for scenery and sports

SOFT: for prerecorded tapes

Repeat play—play a program repeatedly

Press and hold [▶] (play) for about five seconds.

"R>" appears on the television.



At the end of the program, the tape rewinds to the beginning of the program and plays it again. (It only works if there is a five-second blank at the end of the program.) This repeats until you cancel it.

To cancel

Press [>] (play).

It also cancels if you stop, pause, cue, or review.

Manual tracking

This unit has an automatic digital tracking control feature that usually makes tracking adjustments for you, but you may need to do it manually, such as if noise appears on a tape recorded on other equipment.

During play

Press [\blacktriangle CH \land] or [\forall CH \lor].

Repeat until the noise disappears.

To return to automatic digital tracking control Press [\blacktriangle CH \land] and [\lor CH \lor] at the same time.

To remove the noise from a paused picture Start slow play, then adjust the tracking.

Note

This may not be effective on some tapes.

Vertical locking adjustment

Adjust the vertical to stop the picture jiggling while paused.

While paused **Press** [\blacktriangle CH \land] or [\triangledown CH \lor].

Repeat until the jiggling stops.

To return to the previous condition

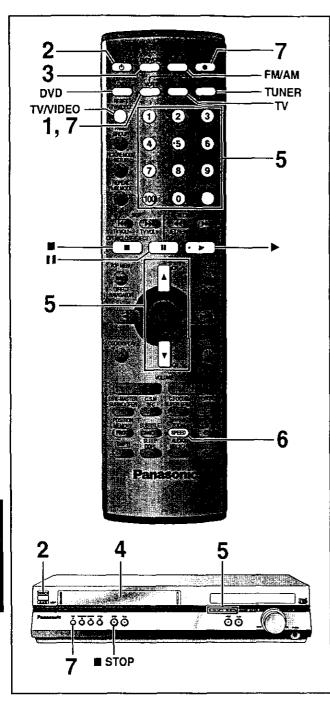
Press [\blacktriangle CH \land] and [\blacktriangledown CH \lor] at the same time.

Note

This may not work with some televisions. Try adjusting the vertical on the television itself.



VCR, METHEL TEGOLOINE



Tape speeds

- There are three tape speeds.
- SP: You can record the length shown on the tape.
- EP: Three times the length of SP mode.
- VP: Five times the length of SP mode.
- •You cannot play tapes recorded with VP mode on other equipment.
- It takes more time for automatic tracking to work when playing tapes recorded with VP mode, and it may not work at all with some tapes. Do tracking manually if this is the case (
 page 35).
- •This unit can play tapes recorded with LP mode on other equipment ("LP" lights on the display).

Recording the television

Preparation

Turn on the television and select the video input for the VCR.

- **1** Press [VCR] to put the remote control in VCR mode.
- **2** Press [0] to turn on the unit.
- **3** Press [DVD/VCR] to select "VCR" as the source.
- 4 Insert the tape you want to record to. Ensure its tab is in place (> page 5).
- 5 Select the channel with the numbered buttons or [▲ CH∧], [▼ CH∨].
 - To select with the numbered buttons:
 e.g. channel 2: [0] → [2] channel 23: [2] → [3]
 - channel 123: [100] → [2] → [3]
- 6 Press [SPEED] to select the tape
 - speed.

Each time you press the button: $SP \rightarrow EP \rightarrow VP$ \uparrow



7 While pressing [VCR], press [● REC] to start recording.

"REC" lights on the unit's display.

<u>BEC</u>

To stop recording Press [#].

To pause recording

Press []].

Press it again or while pressing [VCR], press [● REC] to continue recording.

■ To specify a time to stop recording (⇒ page 48, The sleep timer)

Note

- You cannot change channels while recording. You can change channels while paused.
- •The unit will automatically return to the stop mode after a pause of 5 minutes while recording.
- Even if the tape you use is labeled "S-VHS", the recordings you make do not use this system.
- •You cannot record from the disc section to the VCR.

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Using another source while recording

You can watch and listen to other content when the unit is in timer recording standby or during VCR recording.

■ Television (⇒ page 16)

- 1 During recording
- Press [TV] to put the remote control in TV mode.
- 2 Press [TV/VIDEO] then select the channel with the numbered buttons or [▲ CH ∧], [▼ CH ∨].

■ DVD (⇒ page 18)

- 1 During recording
- Press [DVD] to put the remote control in DVD mode.
- 2 Press [DVD/VCR] to select "DVD".
- 3 Insert a disc and start play.

■ Radio (m page 46)

- 1 During recording Broop TUNEP1 to
- Press [TUNER] to put the remote control in TUNER mode.
- 2 Press [FM/AM] to select the radio band.
- 3 Select the radio channel with the numbered buttons or [\blacktriangle CH \land], [\blacktriangledown CH \lor].

Note

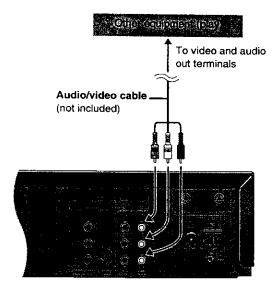
When you want to operate the VCR section again, be sure to press [VCR] to put the remote control in VCR mode.

Recording from other equipment

You can record from other video equipment (VCR, camera, etc.)

Preparation

- •Connect the equipment to this unit's input terminals.
- -Turn the unit off before making connections.
- If audio output on the other equipment is monaural, use a stereomonaural conversion cable (not included).
- Insert the tape, ensuring its tab is in place and find the place to start recording.



Press [▲ CH∧] or [▼ CH∨] to select "AU" channel.



- 2 Press [▶] (play) to find the place to start recording.
- Press [II], then while pressing [VCR], press [● REC] to put the unit in recording standby mode.
- Press [SPEED] to select the tape speed.

Each time you press the button: SP→EP→VP

- 5 Start play on the other equipment.
- 6 Press [II] when you want to start recording.

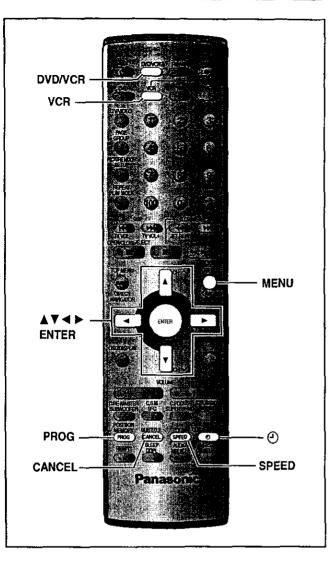
To stop Press [III].

To make a timer program to record from other equipment (= page 38)





VCR TIMENCECO ding





You can create up to 16 timer recording programs. You can set the timer to record an individual program up to a month in advance, record at the same time on the same day every week, or at the same time daily.

Preparation

- Press [VCR] to put the remote control in VCR mode.
- Press [DVD/VCR] to select "VCR" as the source.
- •Make sure the unit's clock is correct (= page 42 to adjust it if necessary).
- Insert a tape, ensuring its tab is in place (⇒ page 5).

While stopped DATE СН ON OFF Press [PROG]. 2 8:029 125 1:304 1) 27MT A:CONT EP The timer-programming Circle 07 In:1548 11:3048 VP Via Boosting Scooler SP 4771048 7:5548 VP screen appears. 19711 2 100 4 Press [PROG] to select an PROG .: ENTER END-MEMIL available line and press [ENTER]. **3** Select "DATE" with $[\blacktriangleleft, \triangleright]$ and change it with $[\blacktriangle, \nabla]$. The date changes as follows: -→Current date ↓↑ Next day up to one month later minus one day 11

Weekly timer: SU-SA → MO-SA → MO-FR ↓ ↑ \downarrow Daily timer: SU \rightarrow MO \rightarrow TU \rightarrow WE \rightarrow TH \rightarrow FR \rightarrow SA

4 Select "CH" with $[\blacktriangleleft, \blacktriangleright]$ and change it with [▲, ▼].

Select "AU" when recording from other equipment (⇒ page 37).

- **5** Select "ON" with $[\blacktriangleleft, \blacktriangleright]$ and change the start time with $[\blacktriangle, \nabla]$.
- **6** Select "OFF" with $[\blacktriangleleft, \blacktriangleright]$ and change the end time with $[\blacktriangle, \nabla]$.
- 7 Press [SPEED] to change the tape speed.

Each time you press the button: SP→EP→VP→A*

*Auto SP/EP change function = page 39

8 If the Jet Navigator is on (→ page 40),

1

Select a category.

Press [▶] to select a category column. Press [▲, ▼] to enter the category selection menu. Then select a category with $[\blacktriangle, \nabla, \triangleleft, \triangleright]$, and confirm with [MENU]. You can also set and change the category in the navigator list

(⇒ page 41).

Repeat steps 2 to 8 to make further timer programs.

9 Press [O] to put the unit on timer

recording standby.

"O" lights on the unit's display.



To release the unit from timer recording standby Press [O].

To stop recording Press [@].

For your reference

The timer works whether the unit is on or not, so you can play DVDs or listen to the radio (-> page 37). Switch the unit to standby if you are finished.

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To check, correct, and cancel timer programs

To check a program

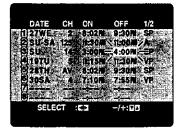
1 Press [PROG].

The timer-programming screen appears.

To correct a program

While the timer programming screen is on the television,

- 1 Press [PROG] to highlight the program you want to correct and press [ENTER].
- 2 Select the item with $[\blacktriangleleft, \blacktriangleright]$ and correct it with $[\blacktriangle, \nabla]$.



To cancel a program

While the timer programming screen is on the television,

- 1 Press (PROG) to highlight the program you want to cancel.
- 2 Press [CANCEL].

To clear the timer programming screen

Press [MENU].

Auto SP/EP change

The unit switches tape speed to EP if it determines there is not enough tape to record the entire program in SP mode. The change may start at the beginning of the recording or part way through, depending on the remaining tape.

Before using this function, set the length of the tape you are using (
page 44). It may not work correctly if you use tapes with irregular lengths.

Example program combination

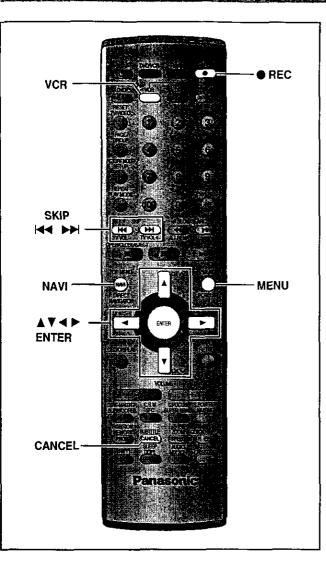
1st progr (30 min	ram () .))// ()			
Example pro	gram comb	ination		
30 min. al	ISP 1	i min. It SP	Alamite. Martin	(when using a 60-min. tape)

Note

This function does not guarantee recording of the entire program.



VCR Intelligencereme with the deal avigator and VHS Index Sealed System (VISS)

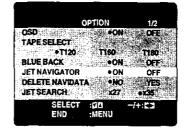


VCR

The unit saves the date, channel, time, and category of the recordings you make and shows them on the Jet Navigator list, making it easier to find and play them. It can save the data for up to 14 recordings on a tape, for 20 different tapes, and for a total of 50 recordings.

Saving Jet Navigator data

- **1** Press [MENU] to display the "VCR MENU" screen.
- 2 Press [▲, ▼] to select "OPTION" menu and press [ENTER].
- 3 Press [▲, ▼] to select "JET NAVIGATOR" and press [◄, ▶] to change the setting to "ON".



- 4 Press [▲, ▼] to select "TAPE SELECT" and press [◄, ▶] to set the length of the tape you are using. T120: T30, T60, T90, T120 tapes T160: T140, T160 tapes T180: T180 tapes
- 5 Record programs (→ pages 36–38). The unit makes the list as you record.

Using the Jet Navigator to find programs

- **1** Press [NAVI] to show the "JET NAVIGATOR" screen.
- 2 Press [NAVI] to highlight the program you want to watch.

The most recent program is highlighted first.

Once you have highlighted the program, wait about three seconds. The VCR then starts searching for the program and starts play.

	JE	F NAVIG.	ATOR		
DATE	CH	ON	CAT	EGORY	
10/18	a in si	ii:307i	. MU	SIC 👗	200
10/19	124	3-0008	SP	ORT 🛃	2
10/21	S			und and a second	÷,
IU/21		16.1 SVB			3
1073	AV (8:02P#	5805 X 3		7
1 10/26	() 4	7:10權	ED ED	UCA 🛄	2
10/27	2	8:024			
1 0.27	150	B-2000	STREET.	1.0383332	ers Sile
				1.1.1	
SELECT	SAFA1/I		END:	HEM91	
SELEUI	100401	u	E 110.1	1 CINO	

The channel, date, and time of a recording appear on the television when play starts.

To clear the Jet Navigator list Press [MENU].

To delete the Jet Navigator on a video cassette tape

Keep [CANCEL] pressed for more than 5 seconds while the Jet Navigator list appears. "---" appears on the list.

■ To delete all the Jet Navigator data stored in the VCR's memory (⇒ page 44).



Setting categories

Set categories to make it easier to see what kind of programs are in the list.

1 Press [▶] while the program you want to categorize is highlighted.

2 Press [▲, ▼, ◄, ►] to select a category and press [MENU] to confirm and return to the previous screen.

Category	Indication	lcon
Movie	MOVIE	\$\$.
Music	MUSIC	♪
Drama	DRAMA	•
Education	EDUCA	V.
Documentary	DOCUM	
Sports	SPORT	¥
Children	CHILD	ę
News	NEWS	ne we
Others	OTHER	etc,

To return to the Jet Navigator list Press [MENU].

Note

- If you have already stored 14 programs on a tape and you then store another one, the new item is added and the oldest is deleted.
- "REMAINING PROGRAM 0 DELETE JET NAVIGATOR DATA" appears when you try to store more than fifty programs. The new item is added and the oldest item is deleted.
- ■"REMAINING CASSETTE 0 FOR JET NAVIGATOR DATA" appears when you try to store items for more than 20 tapes. Delete all the Jet Navigator data in the VCR if you want to save the data for the tape (→ page 44).
- •The list does not appear when playing tapes recorded on other equipment.
- Parts of the list data are recorded on the tape. Take care when recording over older recordings that you do not overlap it. It is recorded within a few minutes either side of the beginning of the recording (longer if you used EP or VP).

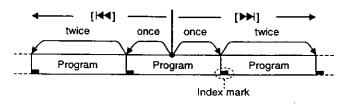
To demonstrate the Jet navigator function

Keep [NAVI] pressed for more than 5 seconds without inserting a cassette tape.

Finding programs—VHS Index Search System (VISS)

Use the index marks on a tape to find sections to play. The unit adds index marks when recording starts. To add them manually during recording, press [ullet REC] while pressing [VCR].

While stopped or during play Press [I◀◀] (backward) or [▶▶] (forward) to skip to the part you want to play.

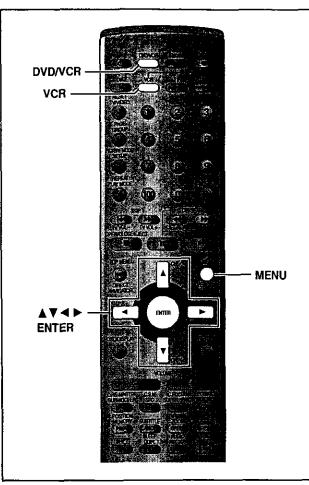


The channel, date, and time of a recording appear on the television when play restarts.

- Up to 20 index signals can be searched for in both directions.
- •You can reduce the number of skips by pressing the opposite button.
- This feature may not work correctly if the marks are too close together. Make recordings of at least 15 minutes (25 minutes in VP mode).



VCR Cheficing settings



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.

Preparation

VCR

- Press [VCR] to put the remote control in VCR mode.
- •Press [DVD/VCR] to select "VCR" as the source.

Before changing the settings Press [MENU] to show the VCR MENU.

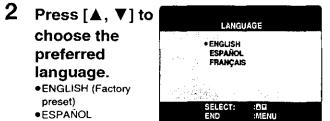


LANGUAGE

Select the language for these menus and other on screen displays.

While the VCR MENU is displayed

1 Press [▲, ▼] to select "LANGUAGE" and press [ENTER].



CLOCK SET

The clock is set automatically after Plug-in Auto Tuning (\Rightarrow page 15). Do the following if you want to set it again or if the time is not set correctly.

While the VCR MENU is displayed

 Press [▲, ▼] to select "CLOCK SET" and press [ENTER].

AUTO CLOCK SET

2 Press [▲, ▼] to select "AUTO CLOCK SET" and press [ENTER].



Auto setting starts. This can take some time.

To stop partway through Press [MENU].

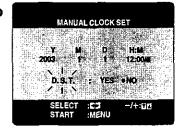
If the unit couldn't set the clock automatically

The MANUAL CLOCK SET screen appears. Set the time manually (⇒ below).

MANUAL CLOCK SET

2 Press [▲, ▼] to select "MANUAL CLOCK SET" and press

[ENTER].



- 3 Press [◄, ►] to select the item you want to change and press [▲, ▼] to change the setting.
- 4 Press [MENU] to start the clock and exit the setting screen.

Time reset function

To return the clock to the exact hour, wait until the clock in the MANUAL CLOCK SET screen is within 2 minutes either side of the hour (e.g., between 11:58:00 and 12:01:59) press [MENU] to clear the screen. The clock changes to the exact hour.

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FRANÇAIS

Press (MENU) to confirm and return to the previous screen.

CHANNEL SET

The unit tunes automatically after you plug it in and turn it on for the first time (= page 15, Plug-in Auto Tuning), but you can start the process again if necessary.

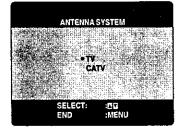
•Make sure you have tuned to a television channel. This does not work if you have selected "AU" channel.

While the VCR MENU is displayed

1 Press $[\blacktriangle, \forall]$ to select "CHANNEL SET" and press [ENTER].

ANTENNA SYSTEM

- 2 Press [▲, ▼] to select "ANTENNA SYSTEM" and press [ENTER].
- 3 Press [▲, ▼] to select "TV" or "CATV" to suit the type of antenna you are using.



Channels are set corresponding to the antenna system you select. This is set automatically when you do Plug-in Auto Tuning.

To exit the settings screen

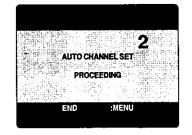
Press [MENU] until the screen disappears.

AUTO

Auto tuning searches for TV stations and memorizes every tuned program position. Other program positions are skipped. (Channel range ➡ right)

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

Auto tuning starts. It takes three or more minutes to complete.



To stop partway through Press [MENU].

MANUAL

You can manually preset channels that are skipped when using the auto channel setting, and manually skip channels that are preset.

- 2 Press [▲, ▼] to select "MANUAL" and press [ENTER].
- 3 Press [▲, ▼] to select "CH" and
 [◄, ▶] to select the channel.
- Press [▲, ▼] to select "BLANK" and
 [◄, ▶] to select "ON" or "OFF".



To exit the settings screen

Press [MENU] until the screen disappears.

Channel range

• I V mode	·····
Band	Airwaves
VHF	2–13
UHF	14-69

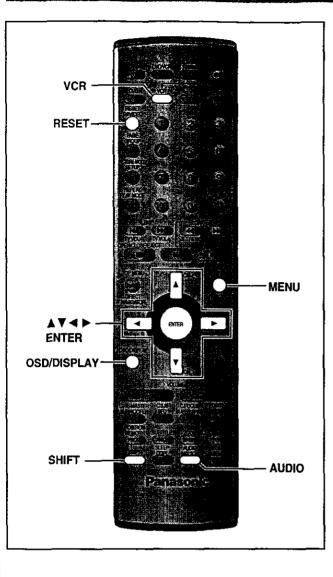
CATV mode

Band	Cable	
VHF	2-13	
CATV LOW BAND	95–99	
CATV MID/SUPER BAND	14–36	
CATV HYPER BAND	37–65	
	66–94	
	100-125	
SPECIAL CATV CHANNEL	1	



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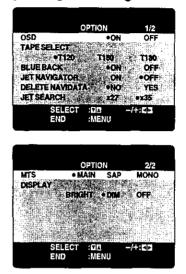
VCR Changing schlugs



OPTION

While the VCR MENU is displayed

- **1** Press $[\blacktriangle, \lor]$ to select the "OPTION" and press [ENTER].
- 2 Press [▲, ▼] to select the item and press [◄, ▶] to change the setting.



To exit the settings screen Press [MENU] until the screen disappears.

VCR

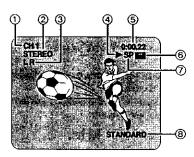
items	Settings (Underlined items are the factory preset.)
OSD (➡ page 45, On-screen display)	<u>QN</u> : Messages appear on the television for about five seconds after you perform operations. OFF: Messages do not appear.
TAPE SELECT Set the length of tape you are using so the unit can show the correct remaining time.	<u>T120</u> : T30, T60, T90, T120 tapes T160: T140, T160 tapes T180: T180 tapes
BLUE BACK	<u>QN</u> : The screen shows a blue background when you play unrecorded portions. OFF
JET NAVIGATOR (➡ page 40)	ON: Jet Navigator data automatically registered. <u>QFF</u> : Data not registered.
DELETE NAVIDATA Delete all the Navigation data registered in the unit. See page 40 to delete data on a single tape.	NO YES: Then press [ENTER] when you want to delete all the Jet navigator data.
JET SEARCH (→ page 34) Set the speed for JET SEARCH when playing EP and VP tapes.	$\times 27 \times 35$ Select $\times 27$ if the picture is poor at $\times 35$.
MTS (- page 45, Changing audio) Set the MTS (Multi-channel Television Sound Stereo) reception type.	MAIN: To receive stereo broadcasts. SAP: To receive SAP when being broadcast. MONO: To receive monaural broadcasts (e.g., when reception is poor).
DISPLAY Set the brightness of the unit's display when the unit is in standby mode.	BRIGHT: The display is bright all the time.DIM:The display dims when the unit is in standby mode.OFF:The display turns off when the unit is in standby mode.

On-screen display

To see these displays, set the OSD item in the OPTION menu to ON.

Press [OSD/DISPLAY].

The time and operation details appear on the screen for about 5 seconds.



1	Channel display Displays the cable television channel or television channel currently being received.
2	STEREO/SAP indication Indicates when a program is broadcast in stereo or SAP. → right for audio type details.
3	L and R indicators The Left (L) and Right (R) indicators show which sound mode is selected as follows: Stereo: Both the L and R indicators appear. L: The L indicator appears. R: The R indicator appears. Normal: Neither the L and R indicator appears.
4	Tape running display Shows operations taking place.
6	Shows the time and tape counter Press [OSD/DISPLAY]. The display changes as follows. Present time → Tape counter → Remaining tape time t Using index search: "S 01" to "S 20" is displayed. Using jet rewind: "J:REW" is displayed. •Press [SHIFT]+[RESET] to reset the tape counter (elapsed time) to "0:00.00". •The remaining time is approximate. It will be incorrect if you set the wrong tape time in the TAPE SELECT item in the OPTION menu and if the tape is of poor quality.
6	Cassette in indicator Shows whether you have loaded a cassette.
Ø	Tape speed indicator (➡ page 36)
8	Picture mode indicator (→ page 35)

Note

- These displays do not appear when paused or during slow play.
- The on screen display may be disturbed depending on the playback tape or the input signal.

Changing audio

When a stereo and/or SAP broadcast is received, "STEREO" and/or "SAP" appear showing the type of broadcast.

To change the audio Press [SHIFT]+[AUDIO].

- The audio changes as follows:
- When playing a tape:
- Stereo→L→R→Normal audio track
- While watching the television:

audio recording patterns.



The table below shows the TV broadcast type, "MTS" settings, and

T 1		Audio track			
TV broadcast	MTS setting	Normal	Hi	Hi-Fi	
	Jerang	(Mono)	Left	Right	
Mono	MAIN or SAP	Mono	Mono	Mono	
Stereo	MAIN or SAP	L+R (Mixed)	Left	Right	
Mono and	MAIN	Mono	Mono	Mono	
SAP	SAP	Мопо	Mono	SAP	
Stereo and SAP	MAIN	L+R (Mixed)	Left	Right	
	SAP	L+R (Mixed)	L+R (Mixed)	SAP	

Be sure that "MTS" is set to "MAIN" or "SAP" to record on the Hi-Fi audio tracks.

Note

• Switch to "MONO" for viewing or recording if a stereo or SAP broadcast is impaired by poor reception.

•To resume stereophonic recording, set "MTS" to "MAIN" or "SAP".

Auto bilingual choice function

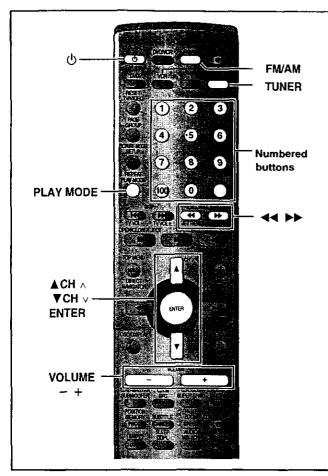
When you play back recordings of stereo or SAP broadcasts, these audio types are automatically selected. The unit may select a different type if you start play midway through the program. Press [SHIFT]+[AUDIO] to change the type if this occurs.

This function does not work if:

- -The tape was recorded on a deck without this system.
- -The tape is a recording from external equipment.



NICIECIO



Preparation

Press [TUNER] to put the remote control in TUNER mode.

Press [①] to turn on the unit.

• Press [FM/AM] to select "FM" or "AM" as the source.

Manual tuning

Press [◄◄] or [►►] to select the frequency of the required station.

TUNED: Displayed when a radio station is tuned.

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

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

Adjust the volume.

If noise is excessive in FM

Press [PLAY MODE] to display "MONO". Press (PLAY MODE) again to cancel the mode. The mode is also canceled when you change the frequency.



FM frequency step

The step is factory-set to 0.2 MHz, but you can change it to receive broadcasts allocated 0.1-MHz steps.

- 1 Press [FM/AM] to select "AM".
- 2 Press and hold [FM/AM].

After a few seconds the display changes to show the current minimum frequency. 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.

ROT6951 Note

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

Automatic presetting

1 Tune to "FM 87.9" MHz or "FM 87.5" MHz (➡ left).

2 Press and hold [ENTER].

Release the button when "AUTO" is displayed.

The tuner presets all the stations it can receive into the channels in ascending order. "SET OK" is displayed when the stations are set. The last station to be set is then played.

3 Tune to "AM 520" kHz.

4 Press and hold [ENTER].

"ERROR" is displayed

Presetting was unsuccessful. Preset manually.

Manual presetting

1 Tune to the station (\Rightarrow left).

2 Press [ENTER].

3 While "PGM" is flashing

Press the numbered buttons to select a channel.

Alternatively, press [\blacktriangle CH \land] or [\blacktriangledown CH \lor] then press [ENTER].



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

Selecting channels

- Press [FM/AM] to select "FM" or "AM".
- 2 Press the numbered buttons or [▲ CH∧] or [▼ CH∨] to select the channel.



To select a 2-digit number

Example: To select channel 12, press [≧10] → [1] → [2]

Note

The unit of display is MHz for FM radio and kHz for AM radio when the selector is in TUNER mode.

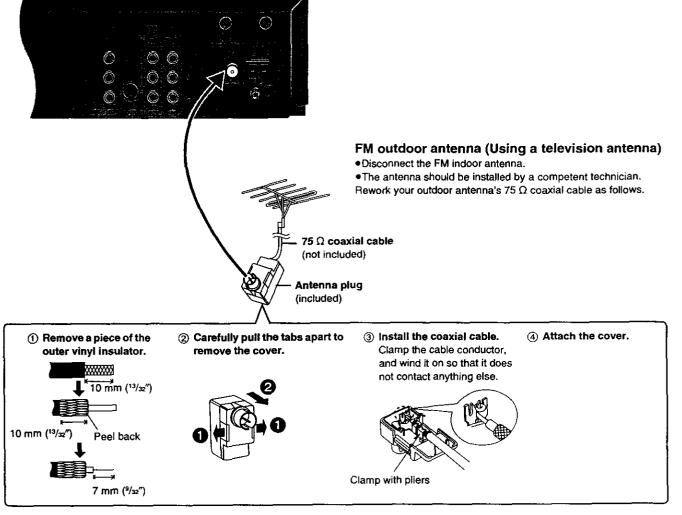
46 Any FM and AM frequencies preset in channels will be initialized by this procedure. Preset them again.

Optional FM antenna connection

Use FM outdoor antenna if radio reception is poor.

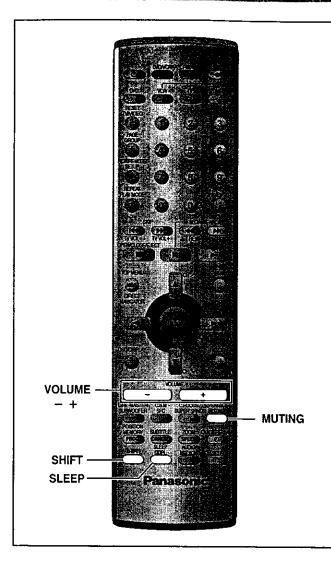
Note

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





Chie convenient features





The sleep timer

Set the unit to switch to standby after a certain time.

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



Each time you do this: $30 \rightarrow 60 \rightarrow 90 \rightarrow 120 \rightarrow OFF$

To cancel the timer

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

To check the SLEEP setting

Press [SHIFT]+[SLEEP] once.

The time remaining appears.

To change the setting

Repeat the procedure from the beginning.

Note

The VCR's timer program recording functions even when the power is turned off by the sleep timer.

Muting the volume

Press [MUTING].



Volume is reduced to minimum.

To cancel

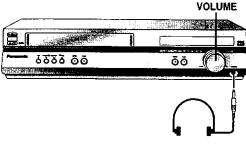
Press [MUTING] again or reduce the volume to minimum (--- dB), then raise it to the required level.

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

Using headphones

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

Headphone plug type: 3.5 mm (1/6") stereo



2 Adjust headphone volume with [VOLUME DOWN, UP].

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

Note

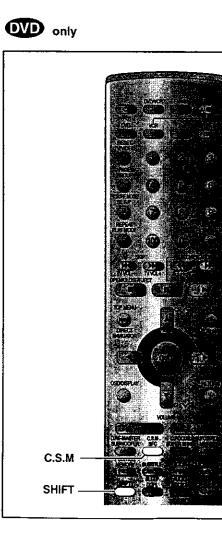
Avoid listening for prolonged periods of time to prevent hearing damage.

Somo

Sound field system		Features	Software	Other effects	
Dołby Digital and DTS		 Dolby Digital and DTS are digital encoding systems used on DVD to carry surround sound. Both were originally developed for use in cinemas. This unit automatically recognizes and decodes these systems. 	Software encoded with Dolby Digital can be identified with this mark. Software encoded with DTS can be identified with this mark.	Center Focus Seat position	
Dolby Pro I	Logic	Dolby Pro Logic is a decoding system that was developed to get a better sense of presence from sources encoded with Dolby Surround. The feeling of position has been improved by the addition of a separate center speaker channel.	Software encoded with Dolby Surround can be identified with this mark (DVD, CD, Video CD, Laser Disc, Video tape).	Center Focus Seat position	
Super Surround	MUSIC	 This mode adds surround effects to stereo sources. You can adjust the volume of the surround speakers to get the best surround effect. 	Any stereo sound source.		
	MOVIE	 This mode adds surround effects to movie software that hasn't been recorded with the above systems. You can adjust the volume of the surround speakers to get the best surround effect. 		Seat position	
Sound Field Control		Use Sound Field Control effects to change quality and add reverberation.	Any source.		

• You cannot use Dolby Pro Logic, Super Surround, Center Focus, or adjust subwoofer level if you have connected headphones. ("ERROR" appears on the display.)

• You may experience a reduction in sound quality when these sound field systems are used with some sources. If this occurs, turn the sound field system off.



Custom Sound Memory—Store the sound settings

DVD-A DVD-V VCD CD

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

• Settings: Dolby Pro Logic, Subwoofer level, Center Focus, Sound Field Control, Super Surround

•Number of discs: 30

- Store the settings
- **1** Make the settings.

- INDEO COTHERS COTHERS
- 2 Press and hold [SHIFT]+[C.S.M].

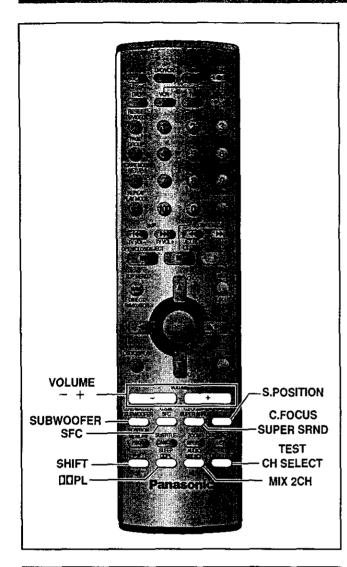


Recall the settings

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

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

RQT6951



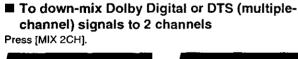
Dolby Digital and DTS

Play a Dolby Digital or DTS source.

The Dolby Digital or DTS indicator lights.



PADIO OTHERS





To cancel, press [MIX 2CH] again.

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

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

Dolby Pro Logic

- 1 Press [DDPL].
- 2 Play a Dolby Surround source.

50 PL

To cancel

Press [DDPL] again.

Note

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

Super Surround

Press [SUPER SRND].



Each time you press the button: MUSIC→MOVIE→Off (Not displayed)

 You can adjust the volume of the surround speakers to get the best surround effect (
 page 51, Speaker level adjustments).

Note

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

Sound Field Control

Press [SFC] to select a setting.



- Each time you press the button:
- FLAT: Canceled (no effect is added) (factory preset).
- HEAVY: Adds punch to rock.
- CLEAR: Clarifies higher sounds.
- SOFT: For background music.
- DISCO: Reverberates sound to make you feel like you were in a disco.
- LIVE: Makes vocals more alive.
- HALL: Expands sound to make you feel like you were in a hall.

To check the current setting

Press [SFC].

Center Focus

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

Press [SHIFT]+[C.FOCUS].



Each time you do this:

CENTER FOCUS1 (Normal)→CENTER FOCUS2 (Enhanced)

This does not work when Super Surround is turned on.

•This will have less effect when Dolby Pro Logic is turned on.

Seat position

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



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



2 Press [SHIFT]+[S.POSITION] repeatedly to select a position.



To cancel

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

Adjusting the bass

Press [SUBWOOFER].



Each time you press the button:

SUBW 1→SUBW 2→SUBW 3→SUBW 4 (factory preset)

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 [DDPL].
- Press [VOLUME +] or [-] to set the volume level normally used for enjoying the source.

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

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

2 Press [VOLUME +] or [-].

L, R: -16 dB to 0 dB C, RS, LS: -10 dB to +6 dB

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

To adjust speaker level during play

- 1 Press [CH SELECT] to select the speaker.
- L→C→R→RS→LS→SW

SW: Subwoofer

You can only adjust SW if there is output from the subwoofer channel.

2 Press [VOLUME +] or [-].

- L, R: 16 dB to 0 dB
- C, RS, LS: -10 dB to +6 dB
- SW: -10 dB to +10 dB

Super Surround

- Press [SUPER SRND] then adjust the surround speaker level.
 - S: -10 dB to +6 dB



Attaching to a wall

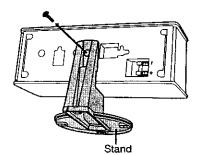
Note

The wall or pillar on which the speakers are to be attached should be capable of supporting 10 kg (22 lb.) per screw.

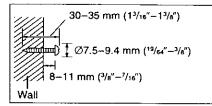
1 Remove the stand. (SC-HT810V only)

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

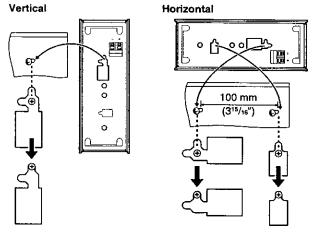
Unscrew the screw with a Phillips-head screwdriver.



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

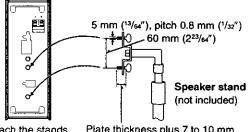


3 Fit the speaker securely onto the screw with the hole or holes.



Fitting speaker stands (optional)

- Preparation
- Remove the stand (SC-HT810V only ⇒ step 1 above).
- Ensure the stands meet these conditions before purchasing them.
 Observe the diameter and length of the screws and the distance between screws as shown in the diagram.
- -The stands must be able to support over 10 kg (22 lb.).
- -The stands must be stable even if the speakers are in a high position.

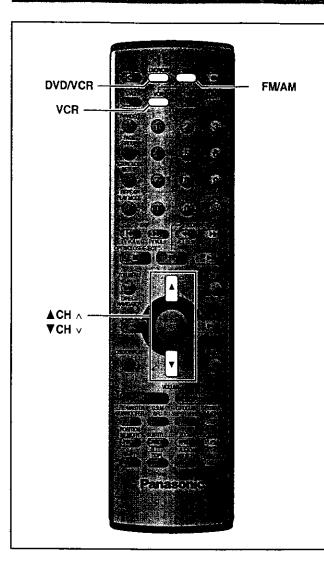


Attach the stands with these holes.

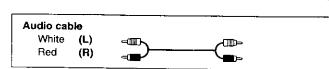
Plate thickness plus 7 to 10 mm (plus $\frac{9}{32^{"}}$ to $\frac{25}{64"}$)

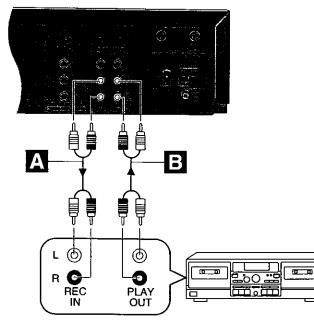


Contractions



Listening to an external source/ Recording to other equipment





- You can record sound from discs, video cassette tapes, or radio, etc., to a tape deck.
 - Discs Prope (D)/DA/CP) to coloct "D)/D" of

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

Video cassette tapes Press [DVD/VCR] to select "VCR" as the source.

Radio

1

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

2 Start recording and play.

Refer to the manual of the other unit for details.

You can playback the sound from a tape deck/laser disc player, etc., through this unit's speakers.

- 1 Press [VCR] to put the remote control in VCR mode.
- 2 Press [DVD/VCR] to select "VCR" as the source.
- 3 Press [▲ CH∧] or [▼ CH∨] to select "AU" channel.
- 4 Start play.

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. INFO

- •The equipment connections described are examples.
- ·Peripheral equipment and optional cables sold separately unless otherwise indicated.
- •Before connection, turn off all equipment and read the appropriate operating instructions.

Connecting a cable TV box/satellite receiver

Subscribe to a cable TV or satellite TV service.

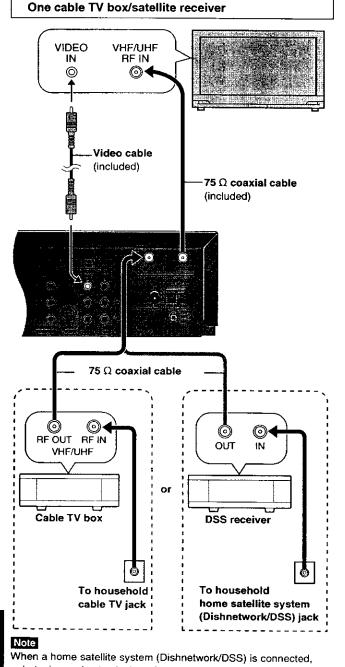
- ·Consult your service provider regarding appropriate cable box or satellite receiver.
- •Select the applicable input on your television to view the output from your cable box/satellite receiver through this unit.
- The signal from the cable TV box or satellite receiver passes through this unit to the television even when this unit is turned off.

Two cable TV boxes

VIDEO

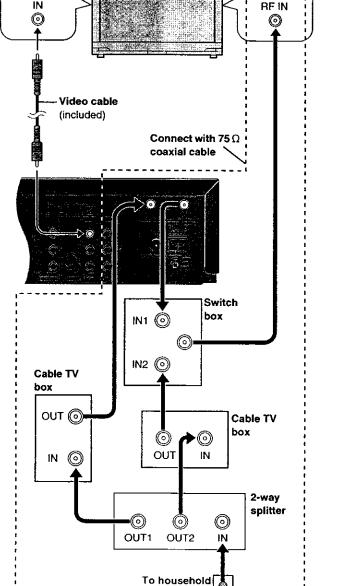
 You can record and view both scrambled and unscrambled channels if connections are made as shown in the diagram below.

HF/UHF



auto tuning and auto clock setting may not operate properly. Set the clock manually (- page 42).

- Change the video input on the television when you want to watch. another program while recording.
- •You cannot do a timer recording unless the channel is first selected on the cable TV box or DSS receiver.



Change the video input on the television when you want to watch another program while recording.

cable TV jack

 $\mathbf{\hat{o}}$

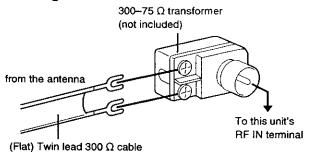
 You cannot do a timer recording unless the channel is first selected on the cable TV box.

INFO

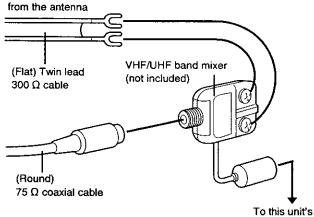
Other antenna connections to the unit

Use one of the following connections to suit the antenna lead.

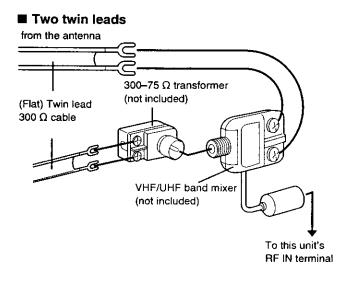
A single twin lead



A twin lead and a coaxial cable



RF IN terminal

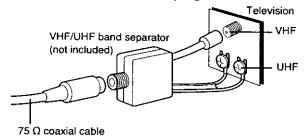


 If your television has both lead and coaxial VHF terminals, use the lead connection to minimize signal loss.

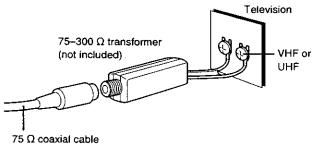
Other antenna connections from the unit to the television

Use one of the following connections to suit the antenna terminals on your television. Refer to the television's operating instructions.

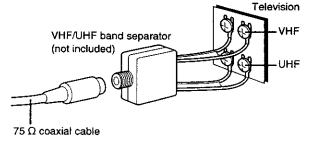
A twin lead and coaxial plug terminal



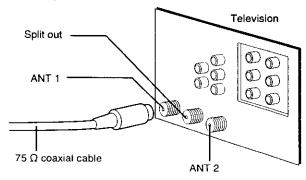
A twin lead terminal



Two twin lead terminals



Multiple antenna terminals



• Connect to one of the terminals, then change the television's setting as necessary.



Troubleshooting guide

INFO

нотеээт 56 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 the website (http://www.panasonic.com).

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

General		Page
No power:	 Insert the AC power supply cords and system cable securely. 	×- 14
No response when buttons	• Some operations may be prohibited by the disc.	
pressed.	• The unit may not be operating properly due to lightning, static electricity or some other external factor.	- 1
	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 both AC power	
	supply cords, and then reconnect	
	Check that the batteries are installed correctly.	2
	• The batteries are depleted: Replace them with new ones.	2
union angelie, alger et make des constructions of transfer et el. (1997) - a	Point the remote control at the remote control sensor and operate.	-
Cannot select alternative languages.	This function depends on software availability. Try selecting from the disc's menu if one is available.	
The SETUP menu cannot be	•Select "DVD" as the source.	- 2002 (Sub-C)*
accessed.	•Cancel all group, program and random play.	25
Cannot operate the VCR.	Press [VCR] to switch the remote control mode to VCR. The unit is in timer recording standby ("O" is on on the unit's display)	
Cannot operate the TV.	• Press [TV] to switch the remote control mode to TV.	
	•Check the TV maker setting.	16
Cannot operate the DVD.	•Press [DVD] to switch the remote control mode to DVD.	
Television reception worsens after	•This can occur because the signals are being divided between the unit and the television.	
connecting the unit.	You can solve this with a signal booster, available from audio-visual suppliers. Consult your	_
	dealer if reception does not improve.	
Cannot eject cassette.	• The VCR is in timer recording standby or actually recording. If you need to eject the tape	38
	press [∅] first so "℗" goes out:	
Disc play		•
Play doesn't start (or stops	Condensation has formed: Wait 1 to 2 hours for it to evaporate.	Sant will
immediately) when you press [>]	 This unit cannot play discs other than the ones listed in these operating instructions: 	
(play).	•This unit cannot play DVD-Video with a region number other than "1", "ALL" or multiple	Cover
这个时间的时候,我们 有关于一次计	region numbers including 11.	1.000
有关中国机器使任警理和 在它的任何	• The disc may be dirly and may require cleaning.	6
的。 这些问题的是我们的问题。	•Ensure that the disc is installed with the label of the side to be played facing upwards.	18
	Check that the DVD-RAM has something recorded on it.	
No menu play.	• This function depends on software availability.	-
No subtitles.	This function depends on software availability:	<u>9-8-</u> 144
在影响 着中语的情绪的问题。	• Subtitles are cleared from the television. Display the subtitles.	. 26 -
	Subtitle position is wrong. Adjust the position.	26
The position of the subtitles is incorrect.	• Change the position of the subtitles with "Subtitle Position" in the on-screen icon menus.	26
Soundtrack and/or subtitle	This function depends on software availability.	1 11
language is not the one selected		
with the SETUP menus.		
Cannot change angle.	• This function depends on software availability. Even if a disc has a number of angles	—
Cannot add markers	recorded, these angles may be recorded for specific scenes only.	
	• You cannot add markers while playing a play list or if the disc's play time doesn't appear on	. –
NE TRADUCTION	the unit's display.	
There are already markers. RAM	• The unit reads and displays the markers added with a DVD video recorder. You can clear them but reappear when you multible the unit to standby abandon the source of the displays the disp	—
Marker numbers I added are	but reappear when you switch the unit to standby, change the source, or open the disc tray.	
different when I call them up. RAM	•The unit numbers markers by time so they change when you add and delete them.	-
Cannot select random or program		
play.	• You cannot select random or program play with some DVD-Video.	—
Folders deeper than the eighth	• Folders deapar than the aighth laws are disclosed as the still bit.	
layer on a data CD are not	 Folders deeper than the eighth layer are displayed as the eighth layer. 	
displayed correctly.		
You have forgotten your ratings	●While stopped and "DVD" is the source, press and hold [◀◀ ⊕/REW], [► PLAY] (DVD)	
password.	and [ADVD OPEN/CLOSE] on the main unit for about 3 seconds until "Initialized"	_
Reset all the SETUP settings to	disappears from the television. Turn the unit off and on again.	
Factory Preset.	All settings will return to the default values.	
The unit doesn't play the data type	Reload the disc for the setting to be effective. Press [SHIFT]+[OPEN/CLOSE/EJECT] to	12 N
(WMA/MP3 or JPEG) selected in	open the tray, then press [▶] (PLAY) to start play.	
"Mixed Disc—Audio & Stills" in the SETUP menu		
		<u>,</u>

Sound

No sound Distorted sound Humming heard during play.	 Check the connections is a subset of the cause then switch the unit on subset of the unit, determine and correct the cause then switch the unit on causes include: Shorting (bare wires touching) of positive and negative speaker wires. Using speakers with an impedance lower than that rated for this unit. Straining of the speakers through excessive volume or power. Using the unit in a hot environment without proper yentilation. An AC power supply cord or fluorescent light is near the subwoofer. Keep other appliances and cords away from the subwoofer. 	
There is noise when playing a video tape.	Adjust the tracking. The tape is old or damaged.	35.%,

Picture

No picture:	Check the connection. Make sure the television is on. Ensure the television's video input setting (e.g., VIDEO 1) is correct.	12, 13⁼ 12, 13
The picture shown on the	•Go to Video in the SETUP menus, and change "TV Aspect" to suit your television.	31
television is not normal.	 Use the television to change the aspect to the correct one. 	
(The sides of the picture are cut	If your television cannot change the aspect when input is progressive,	30
off, the picture is stretched	try changing 4:3 Aspect with the on-screen menu icons.	
horizontally, or black bands appear	•Ensure that the unit is connected directly to the television, and is not connected through an	_
at the top and bottom of the	A/V selector or other equipment.	
screen.)	•Connect to the component video input terminals on a 480P compatible television. (Video	13
	will not be displayed correctly if connected to an incompatible television.)	
	 Change the size with the variable zoom function. 	27
	 The images on PAL system DVD-Audio are compressed for display. They may also appear vertically stretched. 	-
The picture on the television	Mobile telephone chargers can cause some disturbance:	322-205
disappears or stripes appear on	The location and orientation of the antenna are incorrect: If you are using an indoor	47
the screen.	antenna, change to an outdoor antenna.	Sec. Sec.
the second of the second second second	The television antenna wire is too close to the unit. Separate the antenna wire of the	
の時間になった。 2004年、1月間の時間には1月間に	television from the unit.	

Disc picture

Picture distorted.	 Some distortion is normal during SEARCH. 	14
There is ghosting when	 Press [PROGRESSIVE] to turn off progressive output. This problem is caused by the 	18
progressive output is on.	editing method or material used on DVD-Video, but should be corrected if you use interlace	
	output.	
Picture quality is poor.	•Check the settings in the On-Screen Menu Icons' Picture Menu:	30
Menus not displayed correctly.	•Change the zoom ratio to "×1.00".	27
	•With the on-screen icon menus, change "Subtitle Position" to "0" or change "4:3 Aspect" to "Normal".	26, 30

VCR picture

The picture is noisy or is in black	•Adjust the tracking.	35
and white.	Make sure the television's input setting is correct.	
Horizontal bars or lines run down	The video heads are dirty: clean them with a head-cleaning cassette.	59
the screen.	 The video heads are worn: consult your dealer: The tape is old or damaged. You cannot correctly play tapes recorded with other systems (e.g., PAL). 	
Picture is distorted when stilled or during slow-motion.	 Some distortion is normal with tapes recorded using VP mode. 	
The blue back appears during play.	 You are playing a blank or poor quality part of the tape. You can damage the unit if you play dirty or damaged tapes and this can cause the blue back to appear. Consult your dealer. 	9 49<u>619</u>68 50 20 <u>-</u> 20
The picture jiggles.	Adjust the vertical hold.	35



57

Recording

recording. Cannot record.	It the erasure prevention tab has been removed cover the hole with adhesive tape a second	45 A
Timer recording doesn't record a	Check the clock and calendar.	
program correctly.	 Set the channel and start and end times correctly. 	
	●Be sure to press [②] after programming to put the unit in timer recording standby. ●Program times may be overlapped.	38
Cannot record from other equipment:	Press [▲ CH∧] or [▼ CH∨] to Select "AU". Check the connections to the other equipment.	37
Black bands appear in the recording.	•Move the other equipment away from the television as it may be picking up interference.	
very poor/	 This unit complies with industry standards regarding the recording and duplication of copy- protected material: This includes commercial videotapes and DVDs. Consequently, copying not only infringes copyright laws but also presents serious technical difficulties. Even in cases where a copy can be made, the quality will be very poor. 	

51 3 1 1 1 2 S 4 0 5

Listening to the radio

Cannot select the tuner	 Check and see if the subwoofer's AC power supply cord is connected. 	14
Noise is heard. "ST" flickers or doesn't light	Adjust the position of the FM or AM antenna. Use an outdoor antenna.	47
A beat sound is neard.	• Furn 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 display

The unit's display disappears or fades once the power is turned off.	 The DISPLAY setting is set to "DIM" or "OFF" under OPTION from the VCR MENU. Select. "BRIGHT" If you want the display bright all the time. 	44
The tape counter isn't changing.	 The tape counter does not change while playing unrecorded parts. 	NAME ROOM & CONTRACT
	$ \underbrace{ - \left[\begin{array}{c} - \end{array} \right]^{-1} \left[\begin{array}{c} - \end{array} \end{array}]^{-1} \left[\begin{array}{c} - \end{array} \\]^{-1} \left[\begin{array}{c} - \end{array} \end{array}]^{-1} \left[\begin{array}{c} - \end{array} \\]^{-1} \left[\begin{array}{c} - \end{array} \end{array}]^{-1} \left[\begin{array}{c} - \end{array} \\]^{-1} \left[\begin{array}{c} - \end{array} \end{array}]^{-1} \left[\begin{array}{c} - \end{array} \end{array}]^{-1} \left[\begin{array}{c} - \end{array} \end{array}]^{-1} \left[\begin{array}[c] \end{array}]^{-1} \left[\begin{array}[c] \end{array}]^{-1} \left[\begin{array}[c] \end{array}]^{-1} \left[\end{array}]^{-1} \left[\end{array}]^{-1} \left[\end{array}]^{-1} \left[\begin{array}[c] \end{array}]^{-1} \left[\end{array}]^{-1} \left[\end{array}]^{-1} \left[\end{array}]^{-1} \left[\end{array}$	
	 The display also appears like this if the tape is dirty or damaged. Consult your dealer if this is the case. 	—
NoPLAY	You inserted a disc the unit cannot play; insert one it can. You inserted a blank DVD-RAM.	6
"No DISC"	 You haven't inserted a disc; insert one. 	
	 You haven't inserted the disc correctly; insert it correctly. 	18
*F617	•Check and correct the speaker cord connections. If this does not fix the problem, there is a power supply problem. Consult the dealer.	11, 14
"U11"	Disc is dirty. Wipe it clean.	6
ERROR'	Incorrect operation performed: Read the instructions and try again.	
"HOO", "FOO"	Trouble may have occurred. The number following "H" or "F" depends on the status of the	_
□□ stands for a number.	unit.	
	Reset procedure:	
	Press $[\Phi]$ to switch the unit to the standby mode and then back to ON.	
	Alternatively, press $[O]$ to switch the unit to the standby mode, disconnect both AC power supply cords, and then reconnect.	_
	 If the service numbers fail to clear, note the service number and contact a qualified service person. 	

Television display

"Cannot display group xx, picture xx" No on-screen display.	「特徴数では、14、2、2、2、2、2、2、2、2、3、3、3、2、3、3、3、3、3、3、4、3、4	31 44
On-Screen Menu Icons not displayed or only partially displayed on the television.	 Press [▲, ▼] while the rightmost icon is highlighted to move them down. 	28
The menu is displayed in a different language.	 Go to Disc in the SETUP menus, and select the preferred language for "Menus". Go to LANGUAGE in the VCR MENU, and select the preferred language for menus. 	31 42

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INFO

Decoder

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

Dolby Digital

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

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

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

Frame still and field still

Frames are the still pictures that make moving pictures. About thirty are shown each second. A frame still may appear blurred but overall quality is high.

Two fields appear alternately to make up one frame. A field still is not blurred but 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.

I/P/B

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

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

Linear PCM (pulse code modulation)

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

Maintenance

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

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

Cleaning the video heads

Dirt on the video heads can cause poor recording and play.



To clean the heads, insert and eject a tape 5 to 10 times in succession.

If the picture does not improve, use an optional head-cleaning cassette (part number NV-TCL30PT). If the problem persists, seek advice from a qualified service person.

INFO

■ AMPLIFIER SECTION

SC-HT790V

30-111-304	
RMS output power, 10 % total harmon	ic distortion
1 kHz FL/FR	40 W per channel 6 Ω
1 kHz Center	50 W per channel 6 Ω
1 kHz SL/SR	40 W per channel 6 Ω
100 Hz Subwoofer	140 W per channel 4 Ω
Total RMS Dolby Digital mode power	350 W
FTC output power, 1 % total harmonic	distortion
120 Hz-20 kHz FL/FR	20 W per channel 6 Ω
120 Hz-20 kHz Center	25 W per channel 6 Ω
120 Hz-20 kHz SL/SR	20 W per channel 6 Ω
45 Hz-120 Hz Subwoofer	85 W per channel 4 Ω
Total FTC power in Dolby Digital mode	e (Band 1 % THD) 190 W
SC-HT800V	
RMS output power, 10 % total harmon	ic distortion
1 kHz FL/FR	45 W per channel 6 Ω
	00.14

1 kHz Center	60 W per channel 6 Ω	
1 kHz SL/SR	45 W per channel 6 Ω	
100 Hz Subwoofer	160 W per channel 4 Ω	
Total RMS Dolby Digital mode power	400 W	
FTC output power, 1 % total harmonic distortion		
120 Hz–20 kHz FL/FR	25 W per channel 6 Ω	
120 Hz-20 kHz Center	30 W per channel 6 Ω	
120 Hz–20 kHz SL/SR	25 W per channel 6 Ω	
45 Hz-120 Hz Subwoofer	90 W per channel 4 Ω	
Total FTC power in Dolby Digital mode ((Band 1 % THD) 220 W	

SC-HT819V

RMS output power, 10 % total harmonic	; distortion
1 kHz FL/FR	50 W per channel 6 Ω
1 kHz Center	100 W per channel 6 Ω
1 kHz SL/SR	50 W per channel 6 Ω
100 Hz Subwoofer	200 W per channel 4 Ω
Total RMS Dolby Digital mode power	500 W
FTC output power, 1 % total harmonic of	distortion
120 Hz-20 kHz FL/FR	27 W per channel 6 Ω
120 Hz-20 kHz Center	62 W per channel 6 Ω
120 Hz–20 kHz SL/SR	27 W per channel 6 Ω
45 Hz-120 Hz Subwoofer	130 W per channel 4 Ω
Total FTC power in Dolby Digital mode	(Band 1 % THD) 300 W

Input sensitivity	
AUX	250 mV
Input impedance	47 kΩ



Front/Surround/Center speakers SC-H1790V SC-H17800V

Front/Surround speakers SB-FS803

Front/Surround speakers SB-FS	803 Center speaker SB-PC803
Туре	1 way, 1 speaker, Bass-ref.
Speakers	
Full range	6.5 cm (2¹/₂″), cone type, 6 Ω
Input power	60 W (Music)
Output sound pressure lev	el 79 dB/W (1.0 m)
Frequency range	110 Hz-25 kHz (-16 dB)
	130 Hz-22 kHz (-10 dB)
Dimensions (W×H×D)	
SB-F\$803	92×182×90 mm (3 ⁵ /8"×7 ³ /16"×3 ¹⁷ /32")
S8-PC803	180×96×90 mm (7 ³ / ₃₂ "×3 ²⁵ / ₃₂ "×3 ¹⁷ / ₃₂ ")
Mass	0.86 kg (1.9 lb.)
00170404	
SC-HT810V	
Front speakers SB-FS700 Surr	bund speakers SB-F 5801A
Center speaker SB-PC700	
Type	turne tangahan Rass of
SB-FS700 SB-FS801A	1 way, 1 speaker, Bass-ref.
SB-PC700	1 way, 2 speaker, Bass-ref.
Speakers	
Full range	
SB-FS700 SB-FS801A	6.5 cm (2 ¹ / ₂ "), cone type, 6 Ω
SB-PC700	6.5 cm (21/2"), cone type×2, 6 Ω
Input power	
SB-FS700 SB-FS801A	60 W (Music)
SB-PC700 (With filter)	220 W (Music)
Output sound pressure lev	
SB-FS700 SB-FS801A	79 dB/W (1.0 m)
SB-PC700	82 dB/W (1.0 m)
Frequency range	

95 Hz-25 kHz (-16 dB) 110 Hz-22 kHz (-10 dB) 110 Hz-25 kHz (-16 dB) 130 Hz-22 kHz (-10 dB)

Dimensions (W×H×D) (With stand) SB-FS700 135×295>

135×295×145 mm (5 ⁵ /16"×11 ⁵ /6"×5 ²³ /32")
110×226×133 mm (4 ¹¹ /32"×8 ²⁹ /32"×5 ¹ /4")
$250 \times 140 \times 145 \text{ mm} (9^{27}/_{32}" \times 5^{1}/_{2}" \times 5^{23}/_{32}")$

Mass SB-FS700 SB-FS801A SB-PC700

SB-F5801A SB-PC700

SB-FS700

SB-FS801A

SB-PC700

1.1 kg (2.4 lb.) 0.93 kg (2.1 lb.) 1.6 kg (3.5 lb.)

Active subwoofer

SC-HT790V Subwoofer SB-WA312	
SC-HT800V Subwoofer SB-WA310	
SC-HT810V Subwoofer SB-WA330	
Туре	1 way, 1 speaker, Bass-ref.
Speaker unit	
Woofer	17 cm (6³/₄"), cone type, 4 Ω
Input power	200 W (Music)
Output sound pressure level	80 dB/W (1.0 m)
Frequency range	40 Hz–220 Hz (– 16 dB)
• • •	45 Hz–180 Hz (– 10 dB)
Dimensions (W×H×D)	160×450×424 mm
	(6 ⁵ /16"×17 ²³ /32"×16 ¹¹ /16")
Mass	
SB-WA312 SB-WA310	10.8 kg (23.8 lb.)
SB-WA330	11.5 kg (25.4 lb.)



DISC SECTION

Disc played	(one layer per side)
DVD-VIDEO/AUDIO	8 cm/12 cm, single/double-sided,
	single/double layer
CD/VCD/MP3/WMA	8 cm/12 cm, CD-R/RW
• • • • • • • • • • • • • • • • • • • •	IDEO formatted discs)
HighMAT	
Video	Level 2 (Audio and Image)
	NTRO
Signal system	NTSC
Output level	Composite video; 1 Vp-p (75 Ω)
	S-video; 1 Vp-p (Y), 0.286 Vp-p (C) (75 Ω)
	Component video; 1 Vp-p (Y) (75 Ω)
	0.7 Vp-p (Pв/Cв, Pв/Cя) (75 Ω)
Audio	
Sampling frequency	
CD	44.1 kHz
MP3	32 kHz, 44.1 kHz, 48 kHz
DVD	48 kHz, 96 kHz (video), 192 kHz (audio)
Bitrate	
MP3	32–320 kbps
Decoding	16/20/24 bit linear
Pick up	
Beam Source	Semiconductor Laser
Wavelength	
CD/VCD	780 nm
DVD	658 nm
Number of channels	5.1 ch (FL, FR, SL, SR, C, SW)
Frequency response	
Wow and flutter	20 Hz– $20 kHz (+1, -2 dB)$
	Less than possible measurement data
Digital filter	8 fs
D/A converter	Delta sigma DAC

VCR SECTION

Video recording system 2 rotary heads, helical scanning system Video heads 4 heads Audio heads 2 heads Tape speed SP; 33.35 mm/s, EP; 11.12 mm/s **Tape format** VHS tape **Recording/playback time** SP; 120 min. with NV-T120 EP; 360 min. with NV-T120 FF/REW time Approx. 54 s. with NV-T120 (FF/REW) Approx. 36 s. with NV-T120 (JET REW) VIDEO **Television system** EIA; Standard (525 lines, 60 fields), NTSC color signal Luminance; FM azimuth recording Modulation system Color signal; converted subcarrier phase shift recording Input level VIDEO IN (PHONO); 1 Vp-p, 75 Ω Output level VIDEO OUT (PHONO); 1 Vp-p, 75 Ω Antenna receive input VHF 2-13 CH, 75 Ω UHF 14-69 CH, 75 Ω CATV 5A and A-5-EEE CH, 75 Ω AUDIO Input level AUDIO IN (PHONO); - 10 dBV, 47 k Ω **Output level** AUDIO OUT (PHONO); -8 dBV, 1 kQ Audio track 1 track (normal-mono only), 2 channels (Hi-Fi sound stereo) Video horizontal resolution Color; more than 200 lines Signal-to-Noise ratio Video; more than 40 dB/SP Audio; more than 60 dB/Hi-Fi 20 Hz-20 kHz/Hi-Fi

0.005 % Wrms/Hi-Fi

Audio frequency response Wow and flutter

FM TUNER SECTION

Frequency range

87.5-108.0 MHz (100-kHz step) Sensitivity 2.5 µV (IHF) S/N 26 dB 2.2 µV Antenna terminals 75 Ω (unbalanced) Preset station

87.9-107.9 MHz (200-kHz step)

15

AM TUNER SECTION

Frequency range	520–1710 kHz (10-l	kHz step)
AM Sensitivity S/N 20 dB at 1000 k Preset station	Hz	560 μV/m
reset station		15

GENERAL

Hz
W
w
W
nm
œ")
b.)

Power consumption in standby m	ode
BRIGHT mode	Approx. 3.7 W
DIM mode	Approx. 3.5 W
OFF mode	Approx. 2.4 W

Note

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

INFO

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

Limited Warranty Coverage

If your product does not work properly because of a defect in materials or workmanship, Panasonic Consumer Electronics Company or Panasonic Sales Company (collectively referred to as "the warrantor") will, for the length of the period indicated on the chart below, which starts with the date of original purchase ("warranty period"), at its option either (a) repair your product with new or refurbished parts, or (b) replace it with a new or a refurbished product. The decision to repair or replace will be made by the warrantor.

Product or Part Name	Parts	Labor
Audio Products (except items listed below)	One (1) year	One (1) year
All Audio Racks (cabinets)	Thirty (30) days	Not Applicable
Technics Stand Alone Speakers, Subwoofer Speakers	Three (3) years	Three (3) years
USB Reader-Writer, Personal Computer Card Adapters (in exchange for defective item)	One (1) year	Not Applicable
Accessories: Headphones, Cartridges, Microphones, Adapters	Ninety (90) days	Ninety (90) days
Rechargeable Batteries (in exchange for defective item)	Ten (10) days	Not Applicable
SD Memory Cards, Rechargeable Battery Packs (in exchange for defective item)	Ninety (90) days	Not Applicable

During the "Labor" warranty period there will be no charge for labor. During the "Parts" warranty period, there will be no charge for parts. You must carry-in or mall-in your product during the warranty period. If non-rechargeable batteries are included, they are not warranted. This warranty only applies to products purchased and serviced in the United States or Puerto Rico. This warranty is extended only to the original purchaser of a new product which was not sold "as is". A purchase receipt or other proof of the original purchase date is required for warranty service.

Carry-In or Mail-In Service

For Carry-In or Mail-In Service in the United States call 1-800-211-PANA (1-800-211-7262) or visit Panasonic web site: http://www.panasonic.com For assistance in Puerto Rico call Panasonic Sales Company (787)-750-4300 or tax

For assistance in Puerto Hico call Panasonic Sales Company (787)-750-4300 or fax (787)-768-2910.

Limited Warranty Limits And Exclusions

This warranty ONLY COVERS failures due to defects in materials or workmanship, and DOES NOT COVER normal wear and tear or cosmetic damage. The warranty ALSO DOES NOT COVER damages which occurred in shipment, or failures which are caused by products not supplied by the warrantor, or failures which result from accidents, misuse, abuse, neglect, mishandling, misapplication, alteration, faulty installation, set-up adjustments, misadjustment of consumer controls, improper maintenance, power line surge, lightning damage, modification, or commercial use (such as in a hotel, office, restaurant, or other business), rental use of the product, service by anyone other than a Factory Servicenter or other Authorized Servicer, or damage that is attributable to acts of God.

THERE ARE NO EXPRESS WARRANTIES EXCEPT AS LISTED UNDER "LIMITED WARRANTY COVERAGE". THE WARRANTOR IS NOT LIABLE FOR INCIDENTAL OR CONSEQUENTIAL DAMAGES RESULTING FROM THE USE OF THIS PRODUCT, OR ARISING OUT OF ANY BREACH OF THIS WARRANTY. (As examples, this excludes damages for lost time, travel to and from the servicer, loss of media or images, data or other memory content. The items listed are not exclusive, but are for illustration only.) ALL EXPRESS AND IMPLIED WARRANTIES, INCLUDING THE WARRANTY OF MERCHANTABILITY, ARE LIMITED TO THE PERIOD OF THE LIMITED WARRANTY.

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 exclusions may not apply to you.

This warranty gives you specific legal rights and you may also have other rights which vary from state to state. 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 warrantor's Consumer Affairs Department at the addresses listed for the warrantor.

PARTS AND SERVICE WHICH ARE NOT COVERED BY THIS LIMITED WARRANTY ARE YOUR RESPONSIBILITY.

Customer Services Directory

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.

or send e-mail:

consumerproducts@panasonic.com

For hearing or speech impaired TTY users, TTY: 1-877-833-8855

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)

For hearing or speech impaired TTY users, TTY: 1-866-605-1277 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)

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



HOILE SERVICE

- 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 the website (http://www.panasonic.com).

In Canada, contact the Panasonic Canada Inc. Customer Care Centre at 1-800-561-5505, or visit the website (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 that you 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.

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