

DVD Stereo System Operating Instructions

Model No. SC-PM39D



6

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

Region number

The player plays DVD-Video marked with labels containing the region number or "**ALL**".

Region	Number
For U.S.A. and Canada	1
For Latin America	4
Example: For U.S.A. and Canada	







For U.S.A. only

The warranty can be found on page 39.

For U.S.A. and Canada only



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

For Canada only: The word "Participant" is used in place of the word "Partner".



www.DataSheet4U.com RQT7509-1P

Dear customer

Thank you for purchasing this product.

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

Operations in these instructions are described mainly for the remote control, but you can do the operations on the main unit if the controls are the same.

CAUTION!

THIS PRODUCT UTILIZES A LASER. USE OF CONTROLS OR ADJUSTMENTS OR PERFORMANCE OF PROCEDURES OTHER THAN THOSE SPECIFIED HEREIN MAY RESULT IN HAZARDOUS RADIATION EXPOSURE.

DO NOT OPEN COVERS AND DO NOT REPAIR YOURSELF. REFER SERVICING TO QUALIFIED PERSONNEL.

WARNING:

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

CAUTION!

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

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



SHOCK, DO NOT REMOVE SCREWS. NO USER-SERVICEABLE PARTS INSIDE. REFER SERVICING TO QUALIFIED SERVICE PERSONNEL.



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



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

System	SC-PM39D	
Main unit	SA-PM39D	
Speakers	SB-PM39	

CAUTION	LASER RADIATION WHEN OPEN.
ONOTION	DO NOT STARE INTO BEAM. FDA 21 CFR / Class II
CAUTION	VISIBLE AND INVISIBLE LASER RADIATION WHEN OPEN. AVOID EXPOSURE TO BEAM. IEC60825-1 / Class 3b
VARNING	 SYNLIG OCH OSYNLIG LASERSTRÅLNING NÅR DENNA DEL ÅR ÖPPNAD. BETRAKTA EJ STRÅLEN.
ADVARSEL	 SYNLIG OG USYNLIG LASERSTRÅLING VED ÅBNING. UNDGÅ UDSÆTTELSE FOR STRÅLING.
ADVARSEL	 SYNLIG OG USYNLIG LASERSTRÅLING NÅR DEKSEL ÅPNES. UNNGÅ EKSPONERING FOR STRÅLEN.
VARO!	AVATTAESSA OLET ALTTIINA NÄKYVÄÄ JA NÄKYMÄTÖN LASERSÄTEILYLLE. ÄLÄ KATSO SÄTEESEEN.
VORSICHT	 SICHTBARE UND UNSICHTBARE LASERSTRAHLUNG, WENN ABDECKUNG GEÖFFNET. NICHT DEM STRAHL AUSSETZEN.
ATTENTION	RAYONNEMENT LASER VISIBLE ET INVISIBLE EN CAS D'OUVERTURE. EXPOSITION DANGEREUSE AU FAISCEAU.
注意	打开时有可见及不可见激光辐射,避免激光束照射,
注意	- ここを開くと可視及び不可視レーザー光が出ます。 ビームを見たり、触れたりしないで下さい。 RQLXS0054

(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.

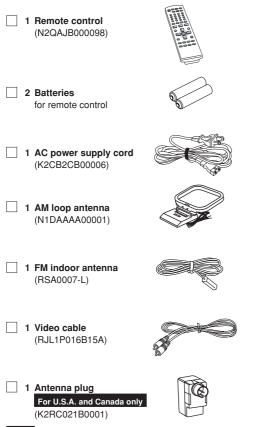
Accessories

Please check and identify the supplied

accessories. Use numbers indicated in parentheses when

asking for replacement parts.

In U.S.A. to order accessories, refer to "Accessory Purchases" on page 39.



Note

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

User memo:

DATE OF PURCHASE
DEALER NAME
DEALER ADDRESS
TELEPHONE NUMBER

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

MODEL NUMBER SC-PM39D

SERIAL NUMBER

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Limited Warranty (ONLY FOR U.S.A.) www. DataShee	AU.com

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.
- Keep these instructions.
- 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 grounding-type 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.

Product Service

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

Product information

For product information or assistance with product operation:

In the U.S.A., refer to "Customer Services Directory" on page 39. 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.

Discs that can be played

Disc www	Logo DataSheet4U.com	Indication in these operating instructions	Ren	narks
DVD-RAM		RAM	Recorded using Version 1.1 of the Video Recording Format (a unified video recording standard).	 Recorded with DVD-Video recorders, DVD-Video cameras, personal computers, etc. Remove discs from their cartridges before use.
	R A M R A M 4.7	JPEG	Recorded using the DCF (Design rule for Camera File system) standard.	 Recorded with Panasonic DVD-Video recorders. To play JPEG files, select "Play as Data Disc" in Other Menu (→ page 21).
		DVD-A	_	
DVD-Audio	AUDIO	DVD-V	Some DVD-Audio discs contain DVD-Video content. To play DVD-Video content, select "Play as DVD-Video" in Other Menu (→ page 21).	
DVD-Video		DVD-V	_	
DVD-R	R R R4.7	000-0	Panasonic DVD-R recorded and finalized [≢] on a Panasonic DVD-Video re or DVD-Video camera are played as DVD-Video on this unit.	
Video CD		VCD	_	
SVCD	SUPER VIDEO		Conforming to IEC62107.	
CD		CD	This unit is compatible with HDCD, but does not support Peak Extend function (A function which expands the dynamic range of high level signals). HDCD-encoded CDs sound better because they are encoded with 20 bits, compared with 16 bits for all other CDs. • During HDCD play, "HDCD" appears on the unit's display.	
CD-R CD-RW	_	WMA MP3 JPEG CD VCD	on the left. Close the session or fina • HighMAT discs WMA, MP3 or JPEG files only.	recording disc) recorded with the formats lize ⁼ the disc after recording. Inction, select "Play as Data Disc" in Other

* A process that allows play on compatible equipment.

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

Discs that cannot be played

DVD-ROM, CD-ROM, CDV, CD-G, DVD+R, +RW, DVD-RW, SACD, Divx Video Discs and Photo CD, DVD-RAM that cannot be removed from its cartridge, 2.6-GB and 5.2-GB DVD-RAM, and "Chaoji VCD" available on the market including CVD, DVCD and SVCD that do not conform to IEC62107.

Audio format of DVDs

This unit automatically recognizes and decodes discs with these symbols.



Playing DVDs and Video CDs

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

To clean discs

DVD-A DVD-V VCD CD

Wipe with a damp cloth and then wipe dry.



RAM DVD-R

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

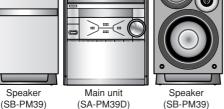
Disc handling precautions

- Do not attach labels or stickers to discs (This may cause disc warping, rendering it unusable).
- Do not write on the label side with a ball-point pen or other hard writing instrument.
- Do not use record cleaning sprays, benzine, thinner, static electricity prevention liquids or any other solvent.
- · Do not use scratch-proof protectors or covers.
- Do not use the following discs:
- Discs with exposed adhesive from removed stickers or labels (rented discs, etc).
- Discs that are badly warped or cracked.
- Irregularly shaped discs, such as heart shapes.

Playing PAL system DVD-Audio

This unit converts PAL to NTSC for play. The picture is compressed to show it in its entirety, but this may cause it to be stretched vertically.

Simple setup STEP Positioning Tweeter 0



(SB-PM39)

Place the speakers so that the tweeter is on the inside.

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 attach these speakers to walls or ceilings.

· Use only supplied speakers

- Using other speakers can damage the unit and sound guality 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 a thick curtain.
- Keep your speakers at least 10 mm (13/32") away from the system for proper ventilation.
- · To avoid damage to the speakers, do not touch the speaker cones if you have taken the nets off.

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 emit strange noise (howling) from a record player, noise from FM broadcasts, or continuous signals from an oscillator, test disc, or electronic instrument.
 - When adjusting the sound quality.
 - When turning the unit on or off.

If irregular coloring occurs on your television

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

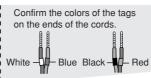
If this occurs, turn the television off for about 30 minutes.

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

Connecting the speakers

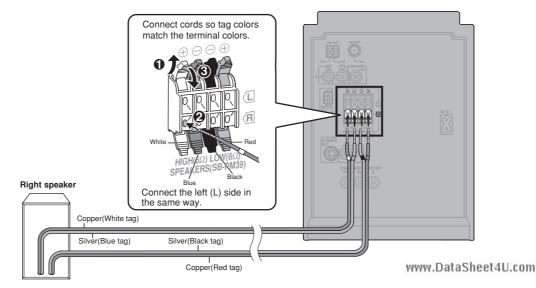
Twist the vinyl tip and pull off. __≫ X

STEP



Note

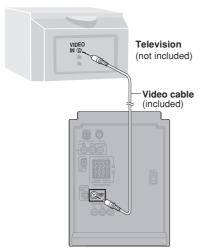
- Never short-circuit positive (+) and negative (-) speaker wires.
- · Be sure to connect only positive (copper) wires to positive (+) terminals and negative (silver) wires to negative (-) terminals.
 - Incorrect connection can damage the speakers.





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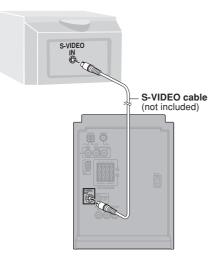
Connecting a television with a VIDEO IN terminal



VIDEO OUT terminal

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

Connecting a television with an S-VIDEO IN terminal



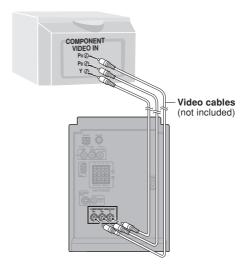
S-VIDEO OUT terminal

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.)

Video cable



Connecting a television with COMPONENT VIDEO IN terminals



COMPONENT VIDEO OUT terminals

These terminals can be used for either interlace or progressive output and provide a purer picture than the S-VIDEO OUT terminal. Connection using these terminals outputs the color difference signals (P_B/P_R) and luminance signal (Y) separately in order to achieve high fidelity in reproducing colors. The description of the component video input terminals depends on the television or monitor (e.g. Y/P_B/P_R,Y/B-Y/R-Y, Y/C_B/C_R). Connect to terminals of the same color.

 After making this connection, change the black level for a better picture (
 page 29, "Video" tab - 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.)
- 2. In QUICK SETUP, set "Progressive Out" to "Enable".
- 3. Change "Progressive" to "480P" (→ page 20, Picture Menu— Video Output Mode).
- All televisions manufactured by Panasonic and that have 480P input connectors are compatible. Consult the manufacturer if you have another brand of television.
- If the unit is connected to the television through VIDEO OUT or S-VIDEO OUT, output will be interlace, irrespective of the settings.



Connecting the antennas and AC power supply cord

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





AC power supply cord



Aim at the sensor, avoiding obstacles, at a maximum range of

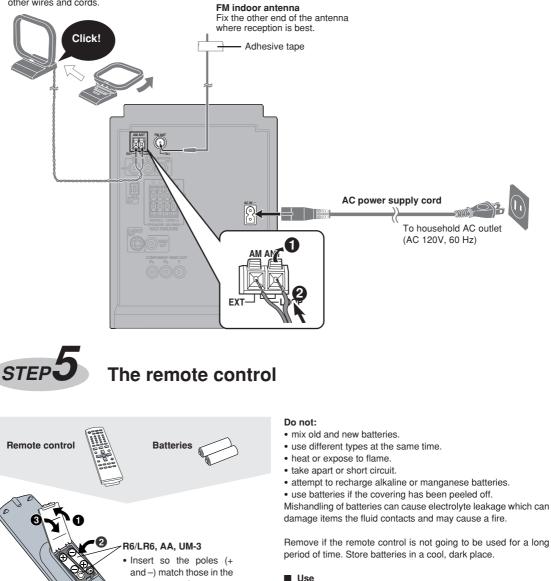
7 m (23 feet) directly in front of WWW!DataSheet4U.com

Conserving power

The unit consumes power (approx. 0.5 W) even when it is turned off with [0]. To save power when the unit is not to be used for a long time, unplug it from the household AC outlet. You will need to reset some memory items after plugging in the unit.

AM loop antenna

Stand the antenna up on its base. Keep loose antenna cord away from other wires and cords.



remote control.

type batteries.

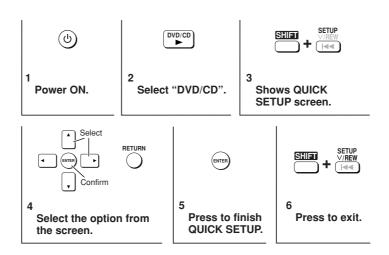
Do not use rechargeable







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





Setting the time

1 Select "CLOCK". 3 Press [CLOCK/TIMER] to finish setting the time.



Set the time (press within 6 seconds or so).

This is a 12-hour clock.

- The time is shown for about 5 seconds when you select "CLOCK" again.
 Pressing [FL DISPLAY] when the unit is on will also display the time.
- Reset the clock regularly to maintain accuracy.

DEMO function



– DEMO



Press and hold.

When the unit is first plugged in, a demonstration of its functions may be shown on the display. If the demo setting is off, you can see a demonstration by turning on the demo.

The display changes each time the button is held down. **Demonstration** (demo on) \iff **NO DEMO** (off)

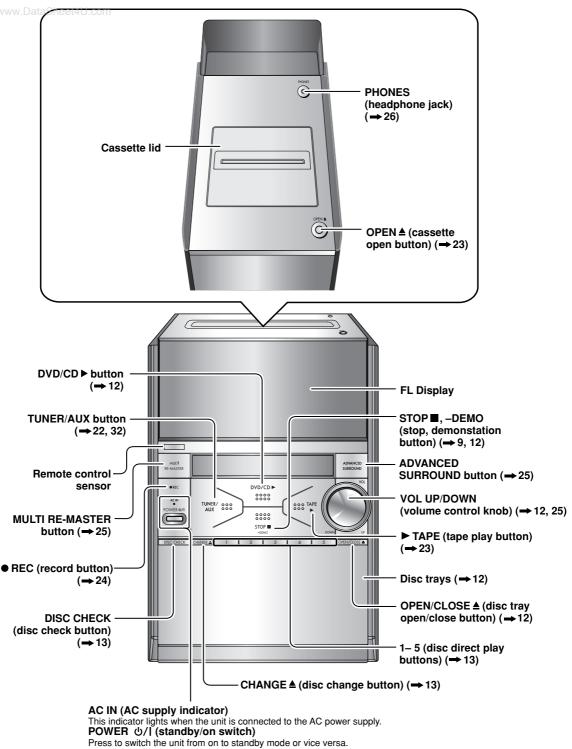
You can reduce the power consumed in standby mode by turning the demonstration off.

Note

You cannot turn the demo function on and off when the unit is on. www.DataSheet4U.com

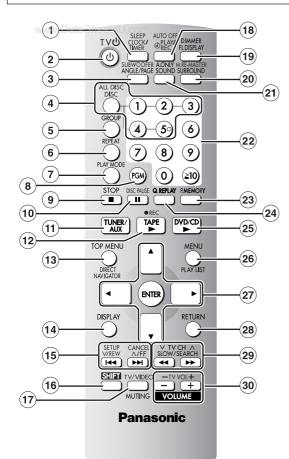
Control reference guide

Main unit



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

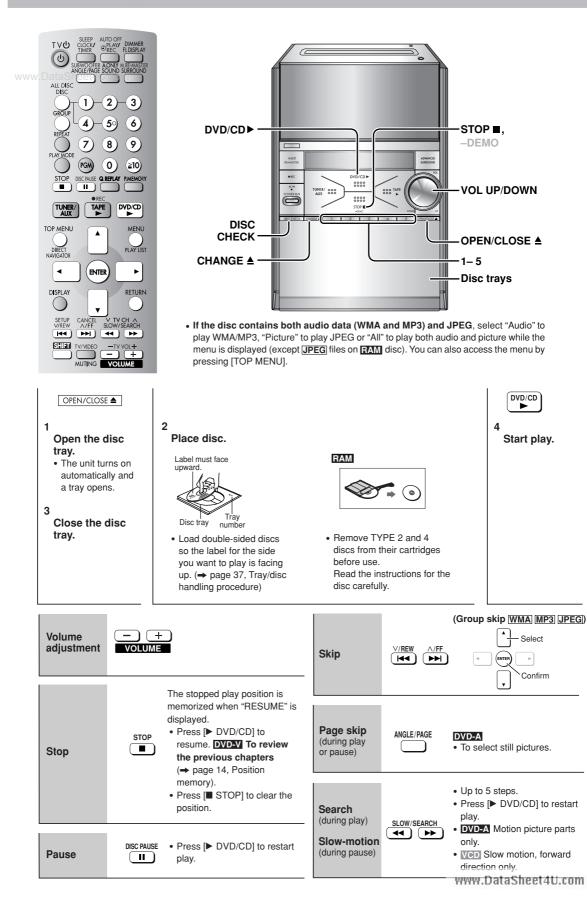
Remote control



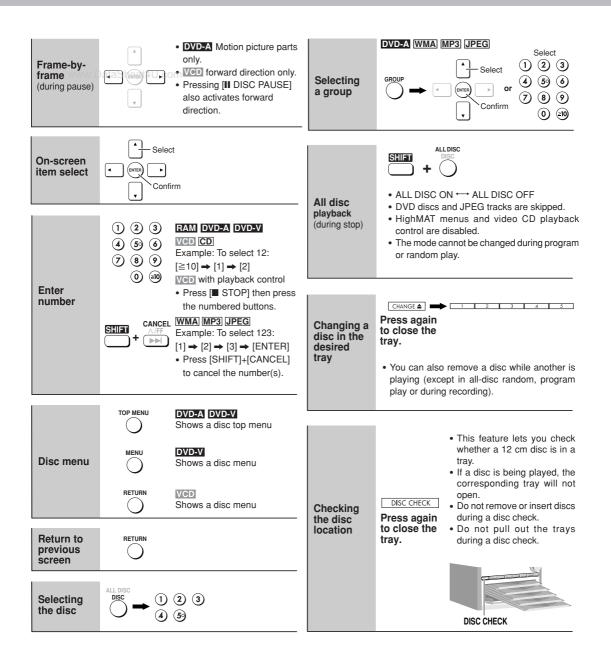
① Clock/timer, Sleep timer button [CLOCK/TIMER, SLEEP]9, 28
② Standby/on, TV standby/on switch [0, TV0]9, 28
③ Angle/Page, Subwoofer button [ANGLE/PAGE, SUBWOOFER] 12, 15, 26
 ④ Disc select, All disc button [DISC, ALL DISC], Disc buttons [1–5]
5 Group button [GROUP] 13
6 Repeat button [REPEAT]14
⑦ Play mode select button [PLAY MODE] 15, 22
8 Program button [PGM] 15
⑨ Stop button [■ STOP]12

Disc pause button [II DISC PAUSE]	12
D Tuner/Aux button [TUNER/AUX]22,	32
 ② Tape play, Record button [► TAPE, ●REC]23, 	24
Top menu, Direct navigator button [TOP MENU, DIRECT NAVIGATOR] 13, 17,	18
Display button [DISPLAY] 14, 16, 17, 2	21
Disc skip, tape fast-forward/rewind, preset channel select, time adjust, Setup, Cancel buttons [I◄◀ ►►I, ∨/REW, ∧/FF, SETUP, CANCEL]	23
Shift button [SHIFT] To use functions labeled in orange: While pressing [SHIFT], press the correspondi button.	ng
⑦ Muting, TV/VIDEO button [MUTING, TV/VIDEO]26,	28
Play timer/record timer, Auto off button [@PLAY/REC, AUTO OFF]26,	27
FL display, Dimmer button [FL DISPLAY, DIMMER]9,	26
Surround, Multi re-master button [SURROUND, M.RE-MASTER]	25
Sound, Audio only button [SOUND, A.ONLY]	25
2 Numbered buttons [0 – 9, ≧10]	13
3 Position memory button [P.MEMORY]	
Quick replay button [Q.REPLAY]	15
5 DVD/CD play button [► DVD/CD]	12
Menu, Playlist button [MENU, PLAY LIST] 13, 16–	18
⑦ Cursor buttons [▲, ▼, ◄, ►], Enter button [ENTER]	. 9
8 Return button [RETURN] 9, 13,	19
Slow/search, tuning, character skip buttons [◀◀, ►► SLOW/SEARCH] 12, 16, These buttons also have the following functions. [◀◀, ►►]: TV channel select buttons	
[TV CH ∨, ∧]	
Volume buttons [-, +, VOLUME] 12, These buttons also have the following functions: [-, +]: TV volume buttons [TV VOL -, +]	

Discs — Basic play



Disc operations

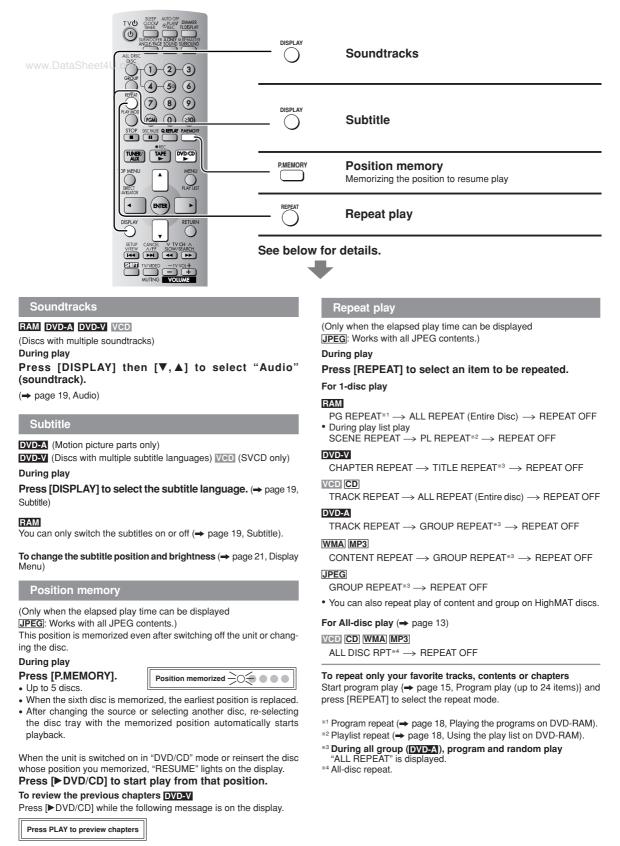


• It may take some time for play to start but this is normal.

- Multiple-channel signals are down-mixed to stereo (2-channel).
 (→ page 32, To enjoy multi-channel surround sound)
- When playing VCDs with playback control (PBC)
 Pressing buttons to perform skip, search or slow-motion may take you
 to a menu screen.
- · Lights when a Dolby Digital or DTS disc is played.



Discs — Convenient functions



• Do not press [> DVD/CD] if you want to cancel review.

RQT7509

Disc operations

2 Press [PGM]. "PGM" appears.

Press [STOP].

Note

1

1

2

• DVD-A If you select bonus groups, you will have to enter a password.

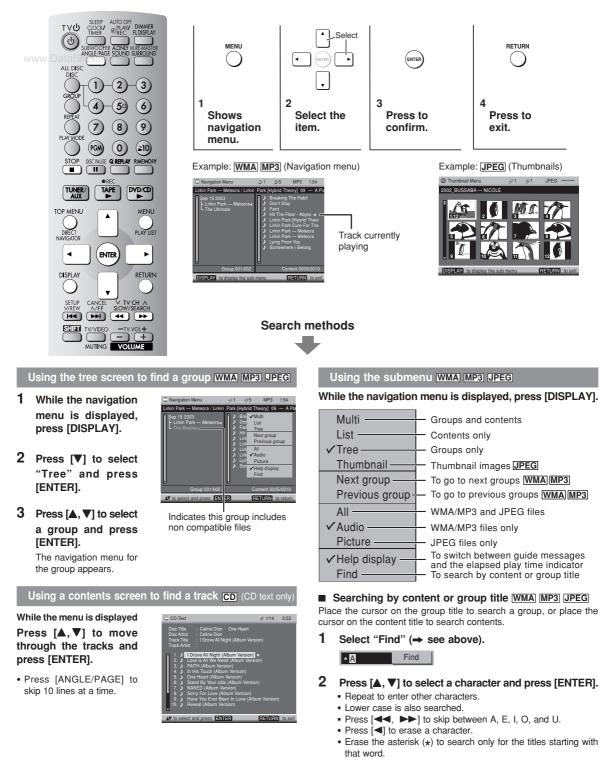
AV-+ 10

- Disable HighMAT disc play (→ page 30, "Others" tab) to use random and program play.
- Quick replay feature may not work while playing some parts of a disc or at all with some discs.

ct and press ENTER

PLAY to

Discs — Using navigation menus



- 3 Press [▶] to select "Find" and press [ENTER]. The search results screen appears.
- 4 Press $[\mathbf{A}, \mathbf{\nabla}]$ to select the content or group and press [ENTER].

Disc operations

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Disc operations

Tips for making WMA/MP3, CD text and JPEG discs

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

Example: MP3

001group

003group

-001track.mp3 -002track.mp3

003track.mp3

001track.mp3

002track.mp3 003track.mp3

001track.mp3

002track.mp3 003track.mp3

004track.mp3

002group

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).

Files must have the extension:

- ".WMA" or ".wma"
- ".MP3" or ".mp3"
- ".JPG", ".jpg", ".JPEG" or ".jpeg"

WMA

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

MP3

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

JPEG

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

CD (CD text only)

When making your own CD text discs

The unit plays the tracks in the order you record them so you do not have to prefix the titles with numbers.

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

Playing HighMAT discs WMA MP3 JPEG

A menu appears when you select the disc.

Press $[\blacktriangle, \nabla, \triangleleft, \blacktriangleright]$ to select then press [ENTER]. When you press [ENTER]:



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

Play list: Play starts.

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

The background changes to the one recorded on the disc.

- · To exit the screen Press [STOP].

Selecting from the lists

1 During play Press [MENU].

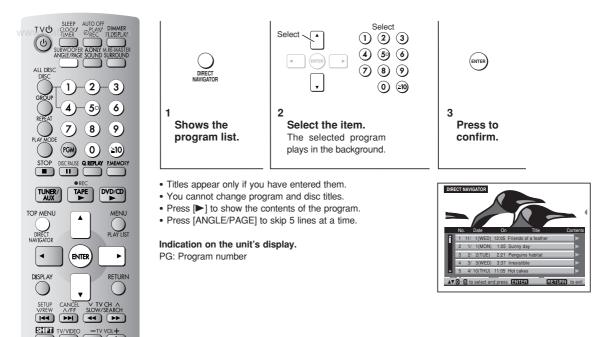


- **2** Press [\blacktriangleleft] then [\blacktriangle , \triangledown] to switch between the play list, group and content lists.
- **3** Press $[\blacktriangleright]$ then $[\blacktriangle, \nabla]$ to select an item and press [ENTER].
- Press [ANGLE/PAGE] to skip 10 lines at a time.
- · To exit the list screen
 - Press [MENU].



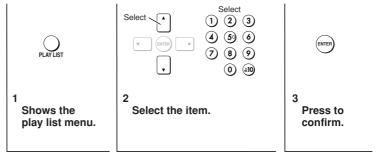
HighMAT and the HighMAT logo are either trademarks or registered trademarks of Microsoft Corporation in the United States and/or other countries.

Playing programs on DVD-RAM



Using the play list on DVD-RAM

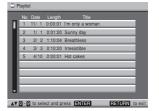




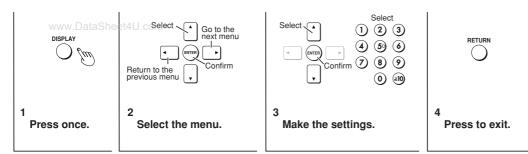
You can play a group of scenes and a play list created on other equipment such as a DVD video recorder.

- The play list can be selected only if the disc contains a play list.
- Press [ANGLE/PAGE] to skip 10 lines at a time.

Indication on the unit's display. PL: Play list number



To get disc information or to play from a specified item

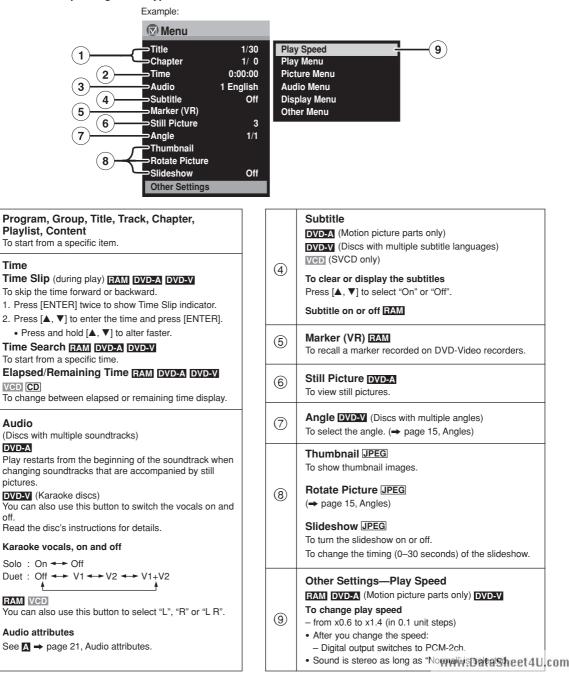


Items shown differ depending on the type of software.

(1)

2

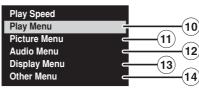
(3)



Example:

vvvvvv.				

🖾 Menu		
Title	1/30	Play Spee
Chapter	1/0	Play Men
Time	0:00:00	Picture M
Audio	1 English	Audio Me
Subtitle	Off	Display N
Marker (VR)		Other Me
Still Picture	3	
Angle	1/1	
Thumbnail		
Rotate Picture		
Slideshow	Off	
Other Settings		



Audio Menu Play Menu **Repeat** (> page 14, Repeat play) Advanced Surround RAM DVD-A DVD-V VCD CD WMA MP3 RAM DVD-A DVD-V (2 channels or more) Except JPEG and RAM (still picture part). Enjoy a surround-like effect when using front speakers A-B Repeat or headphones. The effect broadens when playing discs with surround effects and sound seems to come from RAM DVD-A DVD-V VCD CD WMA MP3 speakers on either side of you. Except RAM (still picture part). The level Repeat a section between points A and B within an item. Off (cancel - factory setting) Natural [ENTER] (start point) → [ENTER] (finish point) Enhanced To cancel: [ENTER] · A-B repeat is cancelled when you press [Q.REPLAY]. Optimum seating position <When using the Speaker 🕇 Speaker DVD-A DVD-V VCD CD WMA MP3 JPEG television's speakers> To mark a position to play again (Marker). Distance A = Television's • Press [>] to highlight the first asterisk and press width [ENTER] again to mark a position. 3 to 4 times You can mark up to 5 positions. distance A To mark another position: $[\blacktriangleleft, \blacktriangleright] \rightarrow [ENTER]$ To recall a marker: $[\blacktriangleleft, \blacktriangleright] \rightarrow [ENTER]$ To erase a marker: $[\blacktriangleleft, \blacktriangleright] \rightarrow [SHIFT]+[CANCEL]$ This feature does not work during program and random sitior (12)**Picture Menu** . This does not work or has less effect with some discs. Turn off if it causes distortion. Picture Mode · Do not use in combination with surround effects on other RAM DVD-A DVD-V VCD JPEC equipment. (→ page 25, Advanced Surround) Cinema1: Mellows images and enhances detail in dark scenes **Dialogue Enhancer** Cinema2: Sharpens images and enhances detail in dark scenes. DVD-V Animation (Dolby Digital, DTS, 3-channel or over, where the dialogue is recorded in the center channel) User (Press [ENTER] to select "Picture Adjustment") This makes the dialogue in movies easier to hear. (→ see below) On ↔ Off (Factory preset) **Picture Adjustment** . This does not work or has less effect with some discs. Brightness Sharpness Color Gamma (Adjusts the brightness of dark parts.) Multi Re-master Depth Enhancer · Reduce the rough noise in the background to give a RAM DVD-A DVD-V CD For discs recorded with multi-channels LPCM at 44.1 kHz greater feeling of depth. or 48 kHz Video Output Mode It adds higher frequency signal not recorded on the discs, RAM DVD-A DVD-V VCD JPEC which gives a more natural sound effect. To switch between Progressive (480P) and Interlace (480I) video. WMA MP3 For discs recorded at 44.1 kHz or 48 kHz. **Transfer Mode** This format reproduces the frequencies lost during RAM DVD-A DVD-V VCD recording to give you a sound closer to the original effect. If you have chosen "480P" (→ see above), select the method of conversion for progressive output to suit the (→ page 25, Multi Re-master—Enjoying more natural sound) type of material. Auto1 (normal): For viewing film material Auto2: For viewing film material (the same as Auto1, but able to convert 30-frame-per-second progressive video) www.DataSheet4U.com Video: For video material

(10)

Marker

play.

Normal

Dynamic

Contrast

(11)

Display Menu	Other Menu
Subtitle Position DVDY 0 to -60 in 2 unit steps. Subtitle Brightness DVDY "Auto" to automatically adjust the brightness against the background, or 0 to -7. Information On ← Off (UPEG) : Off, Date, Details.) 4:3 Aspect EAM DVDA DVDA VCP JPEG To select how to show images made for 4:3 aspect screens on a 16:9 aspect television. Normal: Laterally stretches images. Auto: Expands 4:3 letterbox images to fill more of the screen. Other images appear in full in the center of the screen. Zoom: Expands all images to fill the screen. Just Fit Zoom EAM DVDA (Motion picture parts only) DVDY Yor Preset zoom ratios suitable for the following video formats are available. Auto American Vista 1.85:1 4:3 Standard 1.66:1 Cinemascope1 2.35:1 16:9 Standard 16:9 Manual Zoom EAM DVDA (Motion picture parts only) DVDA Yor <	Play as DVD-Video or Play as DVD-Audic While stopped • Select "Play as DVD-Video" to play DVD-Video of DVD-Audio. Play as DVD-VR, Play as HighMAT or Play Data Disc While stopped • Select "Play as Data Disc" to play JPEG files of RAM or to play HighMAT disc without using the H function. Image: Provide of the stopped • Select "Play as Data Disc" to play JPEG files of RAM or to play HighMAT disc without using the H function. Image: Provide of the stopped • Select "Play as Data Disc" to play JPEG files of RAM or to play HighMAT disc without using the H function. Image: Provide of the stopped • Select "Play as Data Disc" to play JPEG files of RAM or to play HighMAT disc without using the H function. Image: Provide of the stopped • Select "Provide of the stopped" bit: Number of bits channel: Number of channels Example: 3/2 1 ch Image: Provide of the stopped • No surround 1: Mono surround 2: Stereo surround (left/right) 1: Center 2: Front left + Front right 3: Front left + Front right + Center 3: Front left + Front right + Center

RETURN

Press to exit.

Ø 00:01:02 ÷

Elapsed play time

3



2

1

Press twice.

Condition - play, pause -

or slow/search

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Current playback item

G

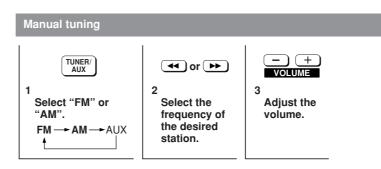
f

Change the playback time display.

D 1

Current position





 Press and hold [44] or [>>] until the frequency starts scrolling to start automatic tuning. Tuning stops when a station is found.

"ST" is displayed when a stereo FM broadcast is being received.

If noise is excessive in FM

1. Press [PLAY MODE] to display "MONO".

2. Press [PLAY MODE] again to cancel the mode.

(The mode is also cancelled when you change the frequency)

■ FM frequency step (main unit only)

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

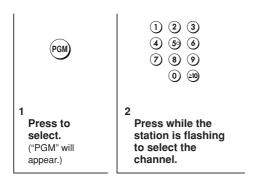
- 1. Select "FM".
- Press and hold [TUNER/AUX]. After a few seconds the display changes to show the current minimum frequency. Continue to hold the button down. The minimum frequency changes and the step is changed.
 To return to the original step, repeat the above steps.

Preset tuning

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

Manual presetting

Tune to the desired station (→ see above).



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

Note

After changing the "allocation" setting, the frequencies you previously preset in the memory will be cleared. Preset them again.

Automatic presetting

Tune to the frequency where pre-setting is to begin (\Rightarrow see above).



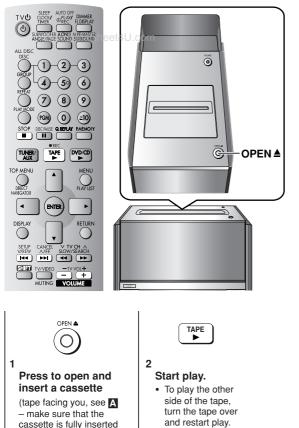
Press and hold. (release when "AUTO" is displayed.)

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

When finished, the last station to be set is played.

Selecting channels

- 1. Press [TUNER/AUX] to select "FM" or "AM".
- 2. Press the numbered buttons or [I◄◀ ∨/REW] or [►►I ∧/FF] to select the channel.



Cassette tape selection and care

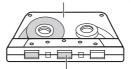
Use normal position tapes.

High position and metal position tapes can be played, but the unit is not able to do full justice to the characteristics of these tapes.

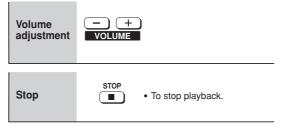
- Tapes exceeding 100 minutes are thin and can break or get caught in the mechanism.
- Tape slack can get caught up in the mechanism and should be wound up before the tape is played.
- Endless tapes can get caught up in the deck's moving parts if used incorrectly.

A Insert cassette

Side to be played back facing up.



Insert the cassette with the exposed tape facing you.



To fast-forward or rewind the tape



and close the lid by

hand).

To fast-forward ([►►I ∧/FF]) or rewind ([I◄◀ ∨/REW]) (during stop).

To find the beginning of a program (TPS: Tape Program Sensor)

TPS finds the beginning of a track and resumes play from there. Each press increases the number of tracks skipped, up to a maximum of 9.



TPS function search (during play).

The TPS function searches for silent parts of about 4 seconds in length which are normally found between tunes. As a result, it may not function properly in the following cases.

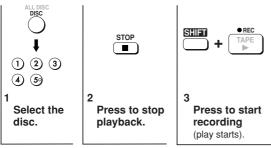
- With short silent parts
- When noise occurs between tunes
- With silent parts found within tunes

Recording



Recording from disc(s)

- Do the preparatory steps (→ see above).
- Insert the disc(s) you want to record (→ page 12, Discs—Basic play).



When recording stops, disc play stops automatically.

Recording specific disc(s) or tracks.

Do the preparatory steps (→ see above).

1 Do steps 1 to 2 (→ see above, Recording from disc(s)). To record programmed tracks

Do steps 1 to 3 (→ page 15, Program play (up to 24 items)).

2 Press [SHIFT] + [OREC] (main unit: [OREC]) to start recording.

If the tape finishes before the disc The disc continues playing. Stop it by pressing [STOP].

Recording from the radio

Do the preparatory steps (→ see above).

- 1 Tune to the desired station (→ page 22, The radio).
- 2 Press [SHIFT] + [●REC] (main unit: [●REC]) to start recording.
- When recording an AM broadcast, sound is momentarily interrupted when you start and stop the recording.

To stop recording Press [STOP].

• To record or erase the other side, turn the tape over.

Note

Types of tape which can be recorded correctly

Use normal position tapes.

High position and metal position tapes can be used, but the unit is not able to record or erase them correctly.

Preparatory steps

Do these steps before each recording.

Wind up the leader tape so recording can begin immediately.



Press to open and insert a cassette

Tape facing you (see $\square \rightarrow$ page 23, Insert cassette) – make sure that the cassette is fully inserted and close the lid by hand.

Volume, surround effects, sound field and quality

- Recording level is set automatically.
- The volume, sound field and quality have no effect on recording. They can be adjusted for playback.
- Multi-channel sources are automatically down-mixed to 2 channels during recording.

Recording from an external unit

• Do the preparatory steps. (→ see above)

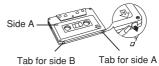
(For connections → page 32, Using an external unit)

- 1 Do step 1 (→ page 32, Using an external unit—To playback).
- 2 Press [SHIFT] + [OREC] (main unit: [OREC]) to start recording.

3 Start playback from the external source. (For details, refer to the external unit's instruction manual.)

Erasure prevention

Use a screwdriver or similar object to break out the tab.



To record on the tape again, cover the hole with adhesive tape.

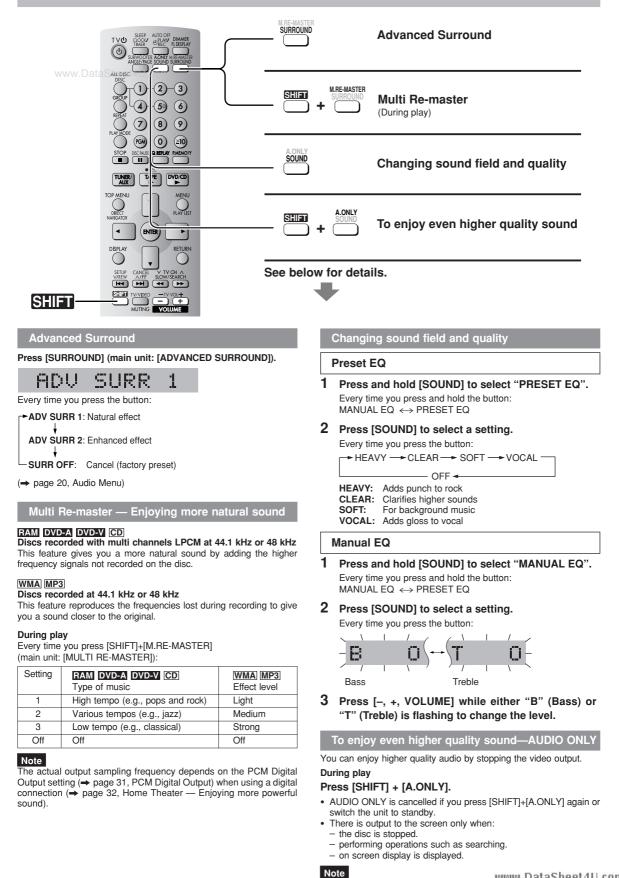


Erase recordings

- 1. Press [► TAPE] and then [■ STOP].
- 2. Press [SHIFT]+[●REC] (main unit: [●REC]).

During recording, other buttons will not function except for [■ STOP], [MUTING], [-, +, VOLUME], [II DISC PAUSE], [0] and [OPEN/CLOSE] buttons.

Sound field and sound quality

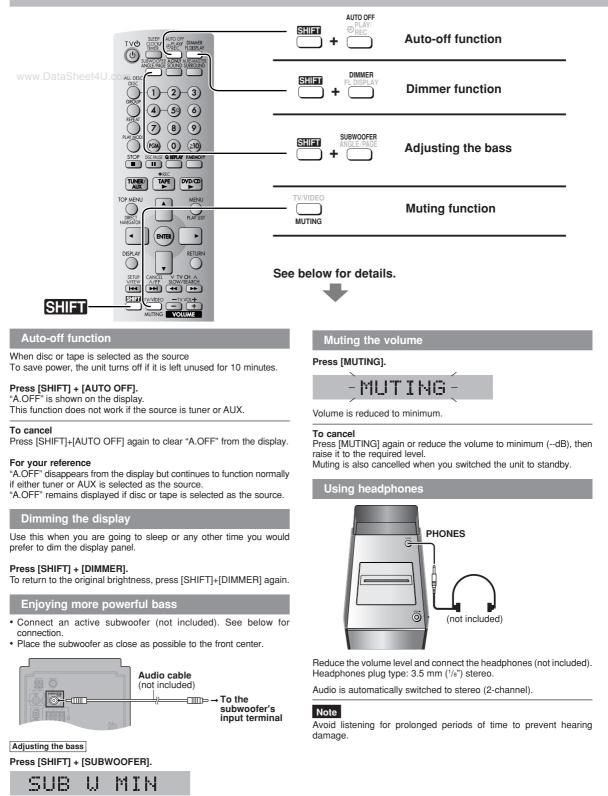


Sound field and sound quality operations

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Convenient functions



Every time you press the buttons:

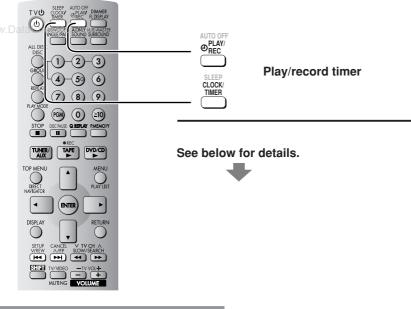
SUB W MIN (factory preset) ---- SUB W MID ----- SUB W MAX

Adjust the volume on the subwoofer to suit your preference.

Note

When using headphones, the subwoofer should be switched off.

Other functions



The play/record timer

You can set the timer to come on at a certain time to wake you up (play timer) or to record a radio station or from the aux source (record timer).

The play and record timers cannot be used together.

- Switch on the unit and set the clock (→ page 9, Setting the time).
- For the play timer, prepare the desired music source (tape/disc/ radio/aux), and set the volume.
- For the record timer, check the cassette's erasure prevention tabs (→ page 24, Erasure prevention) and insert the tape (→ page 23, Cassette tapes). Tune to the radio station (→ page 22, The radio) or select the aux source (→ page 32, Using an external unit).

1 Press [CLOCK/TIMER] to select the timer function.

Every time you press the button:

CLOCK → ②PLAY → ③REC

Previous display ← ●PLAY: to set the play timer ●REC: to set the record timer

2 ON time setting

- ① (Within 6 seconds or so)
- Press [I $\triangleleft \lor$ //REW] or [$\blacktriangleright \lor \land$ /FF] to set the start time. ② Press [CLOCK/TIMER].

3 OFF time setting

Press [I ✓ √/REW] or [▷► I ∧/FF] to set the finish time.
 Press [CLOCK/TIMER].
 The start and finish times are now set.

4 Press [@PLAY/REC] to display the timer indicator. Every time you press the button:

④PLAY → ②REC

▲ (off) ◄

OPLAY: to turn the play timer on

©REC: to turn the record timer on

(The indicator doesn't appear if the start and finish times or the clock have not been set.)

5 Press [එ] to turn the unit off.

The unit must be off for the timers to operate.

- Play timer: Play will start in the set condition at the set time with volume increasing gradually to the set level.
- Record timer: The unit comes on 30 seconds before the set time with the volume muted.

To cancel the timer

Press [OPLAY/REC] to clear the timer indicator from the display. (The timer comes on at the set time everyday if the timer is on.)

To change the settings (when the unit is on)

To change the play/record times Do steps 1, 2, 3 and 5.

To change the source or volume

- 1. Press [@PLAY/REC] to clear the timer indicator from the display.
- 2. Make changes to the source or volume.
- 3. Do steps 4 to 5.

To change the timer

Press [OPLAY/REC] to select the desired timer. Every time the button is pressed:

To check the settings

Press [CLOCK/TIMER] while the unit is on to select "<code><code>OPLAY</code>" or "<code><code>OREC</code>".</code></code>

The settings are shown in the following order:

Play timer: start time \rightarrow finish time \rightarrow source \rightarrow volume

Record timer: start time \rightarrow finish time \rightarrow source

To check the settings while the unit is off, press $\left[\text{CLOCK/TIMER} \right]$ twice.

If you use the unit after the timers are set

After using, check that the correct tape/disc are loaded before turning the unit off.

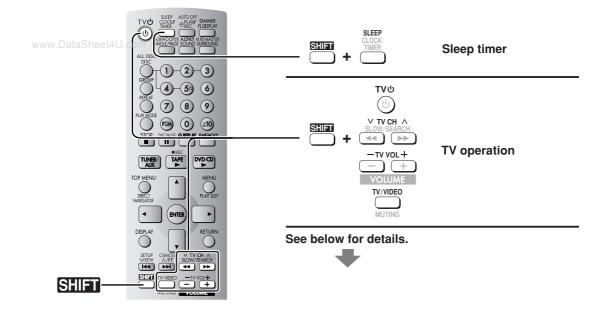
Note

- If you turn the unit off and on again while a timer is functioning, the finish time setting will not be activated.
- If you selected AUX as the source, when the timer comes on, the unit turns on and engages "AUX" as the source. If you want to playback or record from a connected unit, set that unit's timer to the same time. (See the connected unit's instruction manual.)

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Convenient functions



The sleep timer

This timer turns the unit off after a set time.

While enjoying the desired source:

Press [SHIFT] + [SLEEP] to select the time (minutes). Every time you press the button:

→ SLEEP 30 → SLEEP 60 → SLEEP 90 → SLEEP 120 → SLEEP OFF \cdot

To cancel the sleep timer

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

To confirm the remaining time

Press [SHIFT]+[SLEEP] once. The remaining time is shown for about 5 seconds.

To change the setting

Press [SHIFT]+[SLEEP] to select the new setting.

You can use the sleep timer in combination with the play/record timer.

Make sure the unit is off before the play/record timer's start time.

Note

The sleep timer will be turned off when you start recording from a disc.

Operating a television

Face the remote control at the television for the following operations.

Turning the television on/off Press [SHIFT] + [TV \circlearrowright].

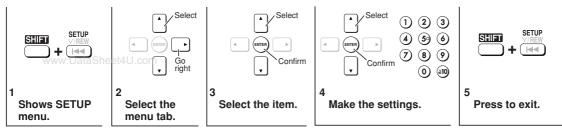
Switching the television's video input mode Press [SHIFT] + [TV/VIDEO].

Changing channels Press [SHIFT] + [\vee TV CH] or [SHIFT] + [TV CH \wedge]. Adjusting the volume Press [SHIFT] + [- TV VOL] or [SHIFT] + [TV VOL +].

Note

Some models cannot be operated by this remote control.

Discs — Changing the player's settings



• The settings remain intact even if you switch the unit to standby.

• Underlined items are the factory preset.

■ "Disc" tab—To choose the language and set a rating level

Audio Choose the audio language.	• <u>English</u> • Original ^{≭1}	 (Language opt Other ****²⁸ 	,	Language options **4 • French • Spanish
Subtitle Choose the subtitle language.	 <u>Automatic</u>^{≈3} (Language options) 	 English Other ****^{∞2} 		 **⁵ • French • Spanish • Portuguese
Menus Choose the language for disc menus.	• <u>English</u> • Other * * * * ^{≋2}	(Language opt	*	
	 Changing the menu language setting. 	from QUICK SETUP also	changes this	1
Ratings Set a ratings level to limit DVD-Video play when you select levels 0 to 7. To enter a password 1. Input a 4-digit password with the nume • If you enter a wrong number, press [S	ric buttons.	Setting ratings (Whe • <u>8 No Limit</u> • 1 to 7 ^{#6} • 0 Lock All: To preve levels.		
 b you enter a wrong number, press [s] Do not forget your password. Press [ENTER]. The lock symbol appears closed to sl Press [ENTER] to confirm the 4 digits. 		Changing ratings (When level 0 – 7 is selected)• Unlock Player• Change Password• Change Level• Temporary Unlock		
If you insert a DVD-Video that exceeds th Follow the on-screen instructions.	e ratings limit you set, a message a	ppears on the television.		

■ "Video" tab—To enable progressive output or to make settings to suit your television

TV AspectChoose the setting to suit your television and preference.Changing the TV aspect from QUICK SETUP also changes this setting.	<u>4:3 Pan&Scan</u> : Regular aspect tel The sides of the w are cut off so it fills prohibited by the c	videscreen picture s the screen (unless	
	4:3 Letterbox: Regular aspect tel Widescreen softwa letterbox style on a television.	are is shown in	
	• 16:9 Widescreen televis	sion (16:9)	
Progressive Out (Component) Choose "Enable" to enable progressive output.	• <u>Disable</u>	Enable	
TV Type Select to suit the type of television.	 <u>Standard (Direct V</u> CRT Projector Projection TV 	<u>/iew TV)</u> • LCD TV/Projector • Plasma TV	
Time Delay When connected with an AV amplifier and Plasma display, adjust if you notice the audio is out of sync with the video.	• <u>0ms</u> • 60ms	• 20ms • 80ms	• 40ms • 100ms
Still Mode Specify the type of picture shown when paused.	<u>Automatic</u> Frame	• Field	
Black Level Control Change the black level of the picture if you connected a television through the COMPONENT VIDEO OUT terminals.	 Lighter: When con Darker: When con 	nnected through VIDEO	OUT or S-VIDEO OUT. DNENT VIDEO OUT WWW.DataSheet4U.c

■ "Audio" tab—To make settings to suit your digital connection and other audio settings

PCM Digital Output (→ page 31, Digital output)	• <u>Up to 48 kHz</u>	Up to 96 kHz
mem.BataGheel4Choonn Digital Audio Output (→ page 31, Digital output)	• <u>On</u>	• Off
Dolby Digital (→ page 31, Digital output)	• <u>Bitstream</u>	• PCM
DTS Digital Surround (→ page 31, Digital output)	• <u>PCM</u>	Bitstream
Dynamic Range Compression (Dolby Digital only)	through compression sound level and	y even when the volume is low essing the range of the lowest d the highest sound level. late night viewing.
Audio during Search Choose whether to have sound during search.	• <u>On</u> (This feature does not	• Off work for some discs)

■ "Display" tab—To choose the on-screen message language or to turn languages off

Menu Language Choose the language for these menus and the on-screen messages.	^{≋4} • <u>English</u> ^{≋5} • <u>English</u>	• Français • Français	EspañolEspañol	Português
On-Screen Messages Choose whether to show on-screen messages or not.	• <u>On</u>		• Off	

"Others" tab— To select either still picture data or audio data when playing discs including both data and other settings

HighMAT Play HighMAT discs as HighMAT discs, or as regular WMA/MP3/JPEG discs.	 <u>Enable:</u> Play HighMAT discs as HighMAT discs. Disable: Play HighMAT discs as regular WMA/MP3/ JPEG discs.
QUICK SETUP Answers questions to make basic settings.	• <u>Yes</u> • No
Re-initialize Setting This returns all values in the SETUP menus to the default settings.	 Yes: The password screen is shown if "Ratings" (→ page 29, "Disc" tab) are set. Please enter the same password. Turn the unit off and on again. No
 ^{*1} The original language of each disc is selected. ^{*2} Input a code number with the numbered buttons (→ page 33, Language code list). ^{*3} If the language selected for "Audio" is not available. 	 For U.S.A. and Canada For Latin America Prohibits play of DVD-Video with corresponding ratings

If the language selected for "Audio" is not available, subtitles of that language will automatically appear if it is available on that disc.

^{*6} Prohibits play of DVD-Video with corresponding ratings recorded on them.

Digital output

RAM DVD-A DVD-V VCD CD WMA MP3

Change the settings when you have connected equipment through this unit's OPTICAL OUT terminal (\Rightarrow page 32, Home Theater—Enjoying more powerful sound).

PCM Digital Output

Select the maximum sampling frequency of PCM digital output. Check the digital input limitations of the equipment you connect.

Off: When not connected digitally Up to 48 kHz (factory preset):

Signals over 48 kHz converted to 48 or 44.1 kHz

Up to 96 kHz: Signals over 96 kHz converted to 48 or 44.1 kHz

Note

- Signals from copy-protected discs are converted to 48 or 44.1 kHz irrespective of the setting.
- Some equipment cannot handle sampling frequencies of 88.2 kHz, even if it can handle 96 kHz. Read your equipment's operating instructions for details.

Dolby Digital and DTS Digital Surround

Bitstream (Factory preset for Dolby Digital):

Select if the equipment you connected can decode the signal.

PCM (Factory preset for DTS Digital Surround):

Select if the equipment you connected cannot decode the signal.

IMPORTANT

If the equipment you connected cannot decode the signal, the setting must be changed to PCM. If not, signals the equipment cannot process will be output by this unit, causing high levels of noise which can damage your hearing and the speakers.

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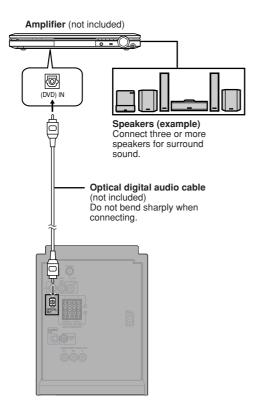
Using other equipment

Before connection

- · Disconnect the AC power supply cord.
- Turn off all equipment and read the appropriate operating instructions.
- The equipment connections described are examples only.
- · Peripheral equipment and optional cables sold separately unless otherwise indicated.

Home Theater — Enjoying more powerful sound

Enjoy the powerful movie theater and hall-like sound available with multiple channel audio found on DVD-Video by connecting an amplifier and speakers. (DVD-A Even if using this connection, output will be only 2 channels.)



To enjoy multi-channel surround sound

Connect an amplifier with a built-in decoder or a decoder-amplifier combination.

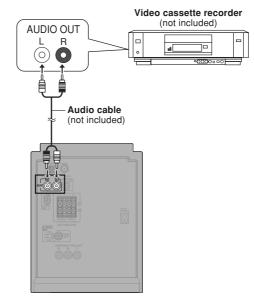
- Change the settings in "Digital output" (→ page 31).
- You can only use DTS Digital Surround decoders that are compatible with DVD.

Recording Output

- With DVD, the following conditions must be met: (a) the disc doesn't have protection preventing digital recording, and (b) the recording equipment can handle signals wth a sampling frequency of 48 kHz.
- You cannot record WMA/MP3.
- When recording DVDs, make the following settings.
- Advanced Surround: SURR OFF (→ page 25)
- PCM Digital Output: Up to 48 kHz (→ page 31, Digital output)
- Dolby Digital and DTS Digital Surround: PCM (→ page 31, Digital output)

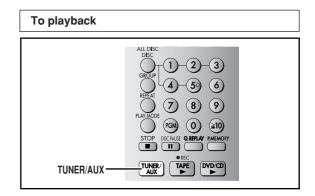
Using an external unit

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



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.



1 Press [TUNER/AUX] to select "AUX".

The unit comes on. Every time you press the button:

FM → AM → AUX

2 Start playback from the external source.

(For details, refer to the external unit's instruction manual.)

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

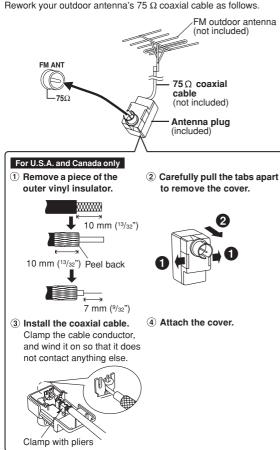
Optional antenna connections

Use outdoor antenna if radio reception is poor.

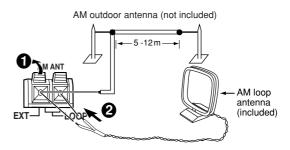
FM outdoor antenna (Using a television antenna)

• Disconnect the FM indoor antenna.

• The antenna should be installed by a competent technician.



AM outdoor antenna



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

Note

layer on a data disc are not displayed correctly.

password.

screen.

Factory Preset.

Cannot eject disc.

You have forgotten your ratings

The unit doesn't play the data type (WMA/MP3 or JPEG) selected in

Reset all the SETUP settings to

the "Audio" or "Picture" in the Playback menu displayed on the

Before requesting service, make the following 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, refer to the "Customer Services Directory" on page 39 if you reside in the U.S.A., or refer to "Product information" on page 4 if you reside in Canada.

owww.DataSheet4U.com		Page
No power.	Insert the AC power supply cord securely.	8
The unit is automatically switched to the standby mode.	The unit was switched to standby by the sleep timer or auto-off function.	26, 28
Operation		
No response when any buttons are pressed.	 Some operations may be prohibited by the disc. The unit may not be operating properly due to lightning, static electricity or some other external factor. Turn the unit off and then back to ON. Alternatively, press [0] to switch the unit to standby mode, disconnect the AC mains lead, and then reconnect it. 	
No operations can be performed with the remote control.	 Check that the batteries are installed correctly. The batteries are depleted: replace them with new ones. Point the remote control at the remote control sensor and operate. 	8 8
Cannot switch on the television with the remote control.	・ Press [SHIFT]+[TV 0] first to operate the television.	28
Play doesn't start (or stops immediately) when you press [▶ DVD/CD].	 Condensation has formed: Wait 1 to 2 hours for it to evaporate. This unit cannot play discs other than the ones listed in these operating instructions. You can only play DVD-Video if their region number is the same or includes the same region number as the unit or if DVD-Video is marked "ALL". Confirm the region number for the unit on the rear panel. 	_ 5, 17 Cove
	 The disc may be dirty and may require cleaning. Ensure that the disc is loaded with the label of the side to be played facing upwards. Check that the DVD-RAM has something recorded on it. 	5 12 -
Cannot select alternative languages.	 This function is dependent on software availability. Try selecting from the disc's menu if one is available. 	- 13
No menu play.	This function is dependent on software availability.	-
No subtitles.	 This function is dependent on software availability. Subtitles are cleared from the television. Turn on the subtitles. 	- 19
The position of the subtitles is incorrect.	Change the position of the subtitles with "Subtitle Position" in the Display Menu.	21
Soundtrack and/or subtitle language is not the one selected with the SETUP menus.	This function is dependent on software availability.	-
Cannot change angle.	 This function is dependent on software availability. Even if a disc has a number of angles recorded, these angles may be recorded for specific scenes only. 	-
The SETUP menu cannot be accessed.	Select "DVD/CD" as the source. Cancel all group, program and random play.	- 15
Cannot add markers.	• You cannot add markers while playing a play list or if the disc's play time doesn't appear on 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 they will reappear when you switch the unit to standby, change the source, or open the disc tray.	-
Cannot select random or program play.	You cannot select random or program play with some DVD-Video.	_
Folders deeper than the eighth laver on a data disc are not	Folders deeper than the eighth layer are displayed as the eighth layer.	-

from the television. Turn the unit off and on again.

All settings will return to the default values.

tray, then press [► DVD/CD] to start play.

again and eject the disc.

• While stopped and "DVD/CD" is the source, press and hold [STOP] on the unit

and [≥10] on the remote control for about 3 seconds until "Initialized" disappears

• Reload the disc for the settings to take effect. Press [OPEN/CLOSE ▲] to open the

• The unit may not operate properly if the disc is damaged or dirty. Press $[\Phi]$ and after the display disappears, wait a few seconds, then press $[\Phi]$

Listening to the radio							
Noise is heard. "ST" flickers or doesn't light. Sound is distorted.	 Adjust the position of the FM or AM antenna. Use an outdoor antenna. 	33					
A beat sound is heard.	Turn the television off or separate it from the unit.	-					
A low hum is heard during AM broadcasts.	Separate the antenna from other cables and cords.	-					

Using the cassette deck

Poor quality sound.	Clean the heads.	36
Recording is not possible.	• If the erasure prevention tabs have been removed, cover the holes with adhesive tape.	24

Sound

Sound		
No sound. Distorted sound.	Check the connections. Turn the volume up. Turn muting off. Turn Advanced surround off if it causes distortion. Switch off the unit, determine and correct the causes, 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 ventilation.	6 26 25 -
Piercing noise comes from the speakers.	 If you have connected this unit to other equipment through the OPTICAL OUT terminal, ensure you have selected the correct settings for "Dolby Digital" and "DTS Digital Surround" in the SETUP menus" "Audio" tab. 	31

Picture

Picture distorted.	 Some distortion is normal during SEARCH. 	-
No picture.	 Check the connection. Make sure the television is on. Ensure the television's video input setting (e.g., VIDEO 1) is correct. 	7 - -
The picture shown on the television is not normal. (The sides of the picture are cut off, the picture is stretched horizontally, or black bands appear at the top and bottom of the screen.)	 Use the television to change the aspect to the correct one. If your television cannot change the aspect when input is progressive, try changing 4:3 Aspect in Picture Menu. 	
There is ghosting when progressive output is on.	 Change "Video Output Mode" to "480I" so "PROGRESSIVE" on the display goes out. This problem is caused by the editing method or material used on DVD-Video, but should be corrected if you use interlace output. 	20
Picture quality is poor.	Check the settings in Picture Menu.	20
The picture on the television disappears or stripes appear on the screen.	 Mobile telephone chargers can cause some disturbance. The location and orientation of the antenna are incorrect. If you are using an indoor antenna, change to an outdoor antenna. The television antenna wire is too close to the unit. Separate the antenna wire of the television from the unit. 	
Menus not displayed correctly.	 Change the zoom ratio to "x1.00". Set "Subtitle Position" in Display Menu to "0". Set "4:3 Aspect" in Display Menu to "Normal". 	21 21 21

Unit displays Although the unit is in standby • Turn off the demo function. 9 9 mode, the display lights up and • If you set the clock, demo function will be turned off automatically. changes continuously. 26 The display is dark. Press [SHIFT]+[DIMMER] until the display returns to the original brightness. • You inserted a disc which the unit cannot play; insert one that can. 5 "DVD NO PLAY" You inserted a blank DVD-RAM disc. You haven't inserted a disc; insert one. "DVD NO DISC" . 12, 37 · You haven't inserted the disc correctly; insert it correctly. 6 "F61" Check and correct the speaker cord connections. If this does not fix the problem, there is a power supply problem. Consult the dealer. 5 • Disc is dirty. Wipe it clean. "DVD U11" · Incorrect operation performed. Read the instructions and try again. "ERROR" _ Trouble may have occurred. The number following "H" depends on the status of the unit. "DVD H□□" • $\Box\Box$ stands for a number. Reset procedure: Press [Φ] to switch the unit to standby mode and then back to ON. Alternatively, press [Φ] to switch the unit to standby mode, disconnect the AC mains lead, and then reconnect it. · If the service numbers fail to clear, note the service number and contact a qualified service person.

Reference

Television displays

"Cannot display group xx, content xx."	You are trying to display incompatible contents.		
"The progressive out is set to "Disable" ataSheet4U.com	 Go to "Video" tab in the SETUP menus, and select "Enable" in "Progressive Out (Component)". 	29	
No on-screen display.	• Go to "Display" tab in the SETUP menus, and select "On" for "On-Screen Messages".	30	
The disc's menu is displayed in a different language.	Go to "Disc" tab in the SETUP menus, and select the preferred language for "Menus".	29	



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.

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.

For a cleaner, crisper sound (cassette deck)

Clean the heads regularly to assure good quality playback and recording. Use a cleaning tape (not included).

When moving the unit

- 1 Remove all discs.
- 2 Press [U/I POWER] on the main unit to turn it off.
- **3** Disconnect the AC mains lead.

Decoder

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

Dolby Digital

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

DTS (Digital Theater Systems)

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

Dynamic range

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

Film and video

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

Frame still and field still

Frames are the still pictures that go together to make a moving picture. There are about 30 frames shown each second.

One frame is made up of two fields. A regular television shows these fields one after the other to create frames.

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

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

Interlace and progressive output

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

I/P/B

MPEG 2, the video compression standard adapted 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 Ppictures so it has the lowest volume of information.

Linear PCM (pulse code modulation)

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

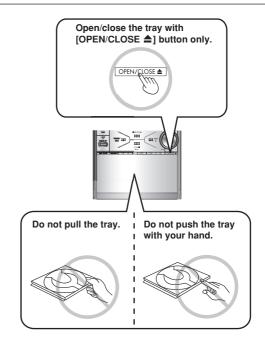
Playback control (PBC)

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

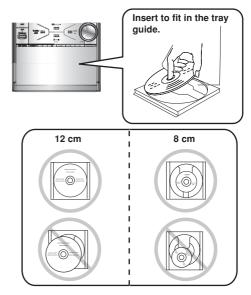
Tray/disc handling procedure

Not adhering to the following may cause problems.

Opening/closing a disc tray



Inserting a disc correctly



- Insert the disc correctly in the position indicated in the diagrams above.
- Place only one disc on a tray.
- · Insert the disc with the label side facing up.

BOT7509

Specifications

AMPLIFIER SECTION

RMS Output Power Stereo mod	le (Both channel driven)
10% total harmonic distortio	
1 kHz (Lo	w channel) 35 W per channel (6 Ω)
	gh channel) $35 W$ per channel (6Ω)
Total RMS Stereo mode power	140 W
FTC Output Power Stereo mod	e (Both channel driven)
10% total harmonic distortio	
	w channel) 30 W per channel (6 Ω) (h channel) 30 W per channel (6 Ω)
Total FTC Stereo mode power	60 W per channel
Phone jack	
Terminal	Stereo, 3.5 mm (1/8") jack
	(,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
FM TUNER SECTION	
Frequency range	87.9 – 107.9 MHz (200 kHz step)
	87.5 – 108.0 MHz (100 kHz step)
Sensitivity S/N 26 dB	2.5 µV (IHF)
Antenna terminals	2.2μV 75Ω (unbalance)
Preset stations	15
AM TUNER SECTION	
Frequency range	520 – 1710 kHz (10 kHz steps)
Sensitivity	
S/N 20 dB at 1000 kHz	560 µV/m
Preset stations	15
CASSETTE DECK SECTION	u
Track system	 4-track, 2-channel
Heads	
Record/playback	Solid permalloy head
Erasure	Double gap ferrite head
Motor	DC servo motor
Recording system	AC bias 100 kHz
Tene encod	AC erase 100 kHz
Tape speed Overall frequency response (+3	4.8 cm/s (1-7/8 ips)
Normal (TYPE I)	35 Hz - 14 kHz
S/N ratio	50 dB (A weighted)
Wow and flutter	0.18% (WRMS)
Fast forward and rewind time	Approx. 120 seconds with
	C-60 cassette tape
DISC SECTION	
Disc played [8 cm (3") or 12 cm	(5")]

Disc played [8 cm (3") or 12 cm (5")]

- (1) DVD-RAM (DVD-VR compatible, JPEG formatted disc)
- (2) DVD-Audio
- (3) DVD-Video
- (4) DVD-R (DVD-Video compatible)
- (5) CD-Audio (CD-DA)
- (6) Video CD
- (7) SVCD (Conforming to IEC62107)
- (8) CD-R/CD-RW
 (CD-DA, Video-CD, SVCD, MP3, WMA, JPEG formatted disc)
- (9) MP3/WMA[∗]
 Compatible compression rate:
 - MP3: between 32 kbps and 320 kbps
 - WMA: between 48 kbps and 320 kbps
- (10) JPEG*
 - Exif Ver 2.1 JPEG Baseline files
 - Picture resolution:

between 320x240 and 6144x4096 pixels (Sub sampling is 4:2:2 or 4:2:0)

- (11) HighMAT Level 2 (Audio and Image)
- The total combined maximum number of recognizable audio and picture contents and groups: 4000 audio and picture contents and 400 groups.

Video system Composite video output	NTSC
Output level Terminal	1 Vp-p (75 Ω) Pin jack (1 system)
S-VIDEO output Y output level C output level Terminal	1 Vp-p (75 Ω) 0.286 Vp-p (75 Ω) (NTSC) S terminal (1 system)
Component video output (4	180P/480I)
Y output level Ps output level Ps output level Terminal	1 Vp-p (75 Ω) 0.7 Vp-p (75 Ω) 0.7 Vp-p (75 Ω) Pin jack (Y:green, Pв: blue, Pя:red) (1 system)
	(10)
Audio output Number of channels Digital audio output Optical digital output Pick up	2 Optical terminal
Wavelength DVD CD	662 nm 785 nm
Laser power For U.S.A.	CLASS IIa/CLASS I
For Canada and Latin Ame	rica CLASS 2/CLASS 3a
SPEAKER SECTION Type Speaker units	3 way, 3 speaker system (Bass reflex)

туре	3 way, 3 speaker system (bass reliex)
Speaker units	
Woofer	10 cm (4") cone type
Tweeter	6 cm (2 ³ / ₈ ") ring shaped dome type
Super tweeter	Piezo type
Impedance	
High	6 Ω
Low	6 Ω
Input power (IEC)	High 35 W (Max)
•••	Low 35 W (Max)
Output sound pressure leve	
Crossover frequency	2.6 kHz, 10 kHz
Frequency range	42 Hz–50 kHz (–16 dB)
Frequency range	
D:	52 Hz–45 kHz (–10 dB)
Dimensions (WxHxD)	145 x 250 x 274 mm
	(5 ²³ / ₃₂ " x 9 ²⁷ / ₃₂ " x 10 ²⁵ / ₃₂ ")
Mass	2.6 kg (5.7 lbs)
GENERAL	
Power supply	AC 120V, 60 Hz
Power consumption	130 W
Dimensions (WxHxD)	174.6 x 251 x 376 mm
()	$(6^{7}/_{8}$ " x 9 $^{7}/_{8}$ " x 14 $^{13}/_{16}$ ")
Mass	5.7 kg (12.6 lbs)
	5.7 Kg (12.0 103)
Operating temperature range	1e + 5°C to + 35°C (+41°F to +95°F)
Operating humidity range	5% to 90% RH (no condensation)
operating number ange	576 to 5076 Firs (110 condensation)

Power consumption in standby mode 0.5 W

Note

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

Limited Warranty (ONLY FOR U.S.A.)

Panasonic Consumer Electronics Company, Division of Matsushita Electric Corporation of America One Panasonic Way Secaucus, New Jersey 07094 Panasonic Sales Company, Division of Matsushita Electric of Puerto Rico, Inc. Ave. 65 de Infantería, Km. 9.5

San Gabriel Industrial Park, Carolina, Puerto Rico 00985

www.DataSheet4U.com Panasonic 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
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 mailin 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 Ćarry-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 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.

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Obtain Product Information and Operating Assistance; locate your nearest Dealer or Servicenter; purchase Parts and Accessories; or make Customer Service and Literature requests by visiting our Web Site at: <u>http://www.panasonic.com/support</u>

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You may also contact us directly at:

1-800-211-PANA (7262),

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