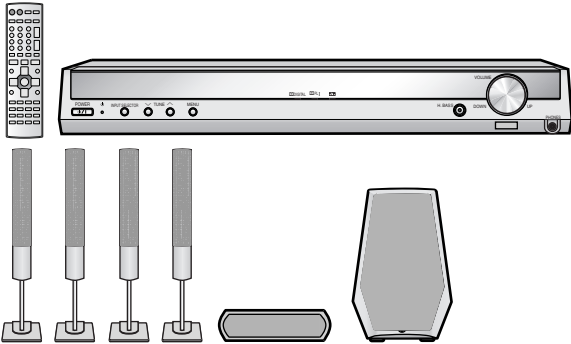


Panasonic®

Operating Instructions Home Theater Audio System

Model No. **SC-HT17**
SC-HT16
SC-HT15

Table of contents

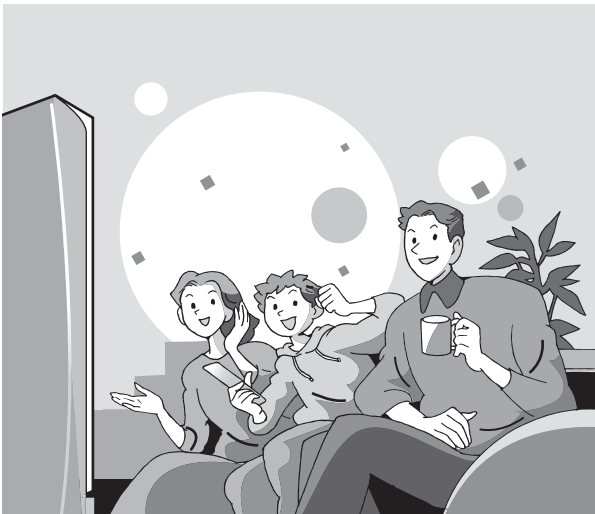


SC-HT17

Dear customer

Thank you for purchasing this product.
Before connecting, operating or adjusting this product, please read the instructions completely.
Please keep this manual for future reference.

SC-HT17 is used in the illustrations unless otherwise mentioned.
SC-HT16 is only for the U.S.A.



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".

Before use

IMPORTANT SAFETY INSTRUCTIONS.....	2
Supplied accessories	3
The remote control	3

Step 1

Speaker setup
4

Step 2

Home theater connections
8

Step 3

Other connections
10

Step 4

Settings
13

Operations

Basic operations	15
Control guide.....	16
The radio	18
Other functions	19
Making a recording	21
The RESET function	21
Remote control operation guide.....	22

Reference

Specifications.....	25
Listening caution	26
Maintenance	26
Product service.....	26
Warranty (U.S.A.).....	27
Troubleshooting guide	Back cover

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.
- 8) 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.




Before use




CAUTION
RISK OF ELECTRIC SHOCK
DO NOT OPEN



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

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

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

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.

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

CAUTION:

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

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

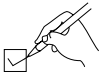
- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

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





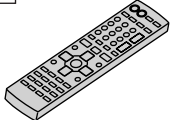



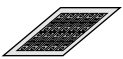


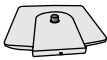


This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

The socket outlet shall be installed near the equipment and easily accessible or the mains plug or an appliance coupler shall remain readily operable.

Supplied accessories

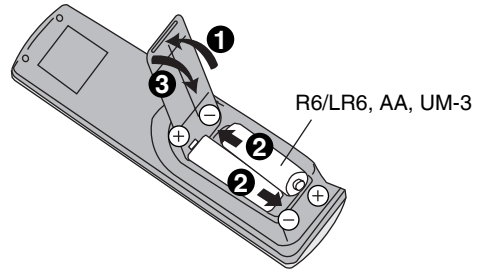


Please check and identify the supplied accessories.

- AC power supply cord
 (K2CB2CB00006)
- System cable
 (K1HA25HA0001)
- FM indoor antenna
 (RSA0007-L)
- AM loop antenna
 (N1DAAAA00002)
- Remote control transmitter
 **SC-HT17** (EUR7722KK0)
SC-HT16 SC-HT15 (EUR7722KH0)
- Batteries
 (x 2)
- Speaker cable(s)
 **SC-HT17** (REE1203A) (4 m x 1)
SC-HT16 SC-HT15 (REE1203A) (4 m x 1)
(REE1203C) (10 m x 2)
- Rubber pads (RKA0072-KJ)
 **SC-HT17** **SC-HT16**
SC-HT15
- Sticker sheet
 (RQCA1029)
- Speaker stands
 (RYQV0060) (x 2)
- SC-HT17** Speaker stands with long cables
 (RYQV0060A) (x 2)
- Stand bases
 (RYQV0059-S) **SC-HT17** (x 4)
SC-HT16 SC-HT15 (x 2)
- Screws
 **SC-HT17** (XTN5+32FFN) (Large x 8)
(XTN4+8FFN) (Small x 8)
SC-HT16 SC-HT15 (XTN5+32FFN) (Large x 4)
(XTN4+8FFN) (Small x 4)
- SC-HT16** Optical fiber cable
 (K7CXJCA00001)

System	SC-HT17	SC-HT16	SC-HT15
Main unit	SA-HT17	SA-HT16	SA-HT15
Front speakers	SB-FS930	SB-FS880	SB-FS880
Surround speakers	SB-FS880	SB-FS15	SB-FS15
Center speaker	SB-PC930	SB-PC15	SB-PC15
Subwoofer	SB-WA17	SB-WA16	SB-WA15

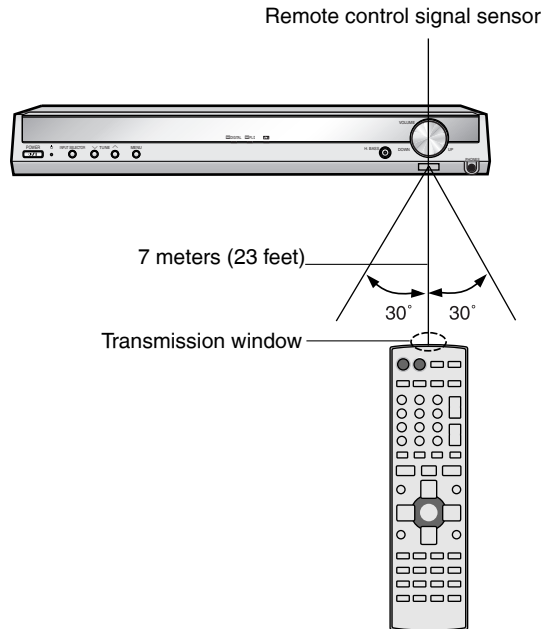
The remote control



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

Use

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



Note

- Keep the transmission window and the unit's sensor free from dust.
- Operation can be affected by strong light sources, such as direct sunlight, and the glass doors on cabinets.

Manufactured under license from Dolby Laboratories. "Dolby", "Pro Logic" and the double-D symbol are trademarks of Dolby Laboratories.

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

Use the numbers indicated in parentheses when asking for replacement parts. (As of January 2005)
In U.S.A. to order accessories, refer to "Accessory Purchases" on page 27.

Step 1

Speaker setup

Supplied accessories

Speaker stands with long cables



Speaker stands



Stand bases



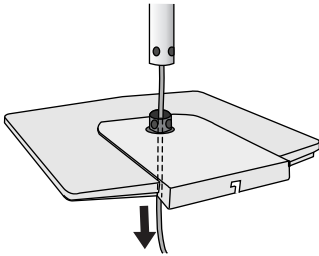
Front and surround speaker assembly

- To prevent damage or scratches, lay a soft cloth and perform assembly on it.
- For assembly, use a Phillips-head screwdriver.

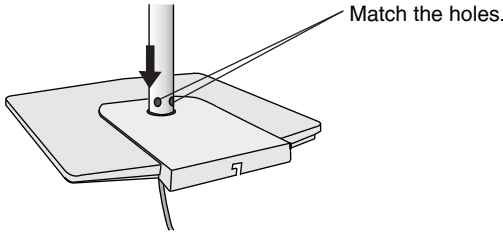
1 Attach the pipe to the base.

1 Thread the speaker cable through the base.

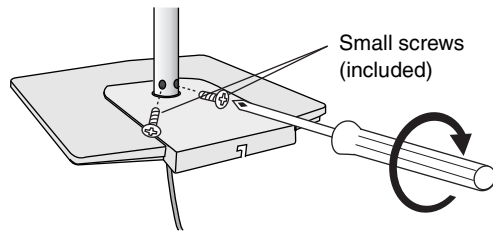
- Untie the cable before threading.



2 Insert the pipe.



3 Secure the pipe to the base.



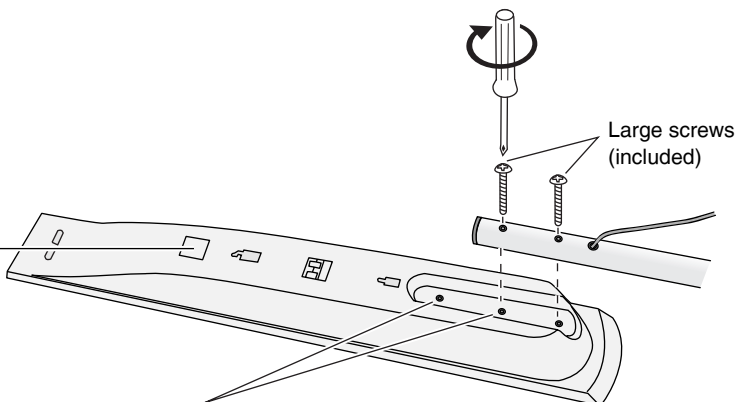
Ensure the screws are securely fastened by lightly tightening the left and right side screws alternately until fully tightened.

The supplied stands are specially designed for use with this unit's speakers. Only use as indicated in this setup.

2 Attach the stand to the speaker.

SC-HT17 Before attaching, check the speaker label.

- SB-FS930: Use as front speakers. Attach the stands with the short cables.
- SB-FS880: Use as surround speakers. Attach the stands with the long cables.



You can also attach to the upper rear of the speaker.

Ensure the stand is fastened on straight by lightly tightening the top and bottom screws alternately until fully tightened.

- There is no difference between the right and left speakers.

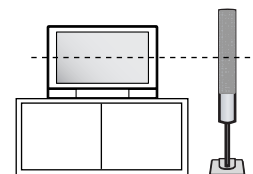
Speaker height

Front Speakers

Try to line up the middle of the speakers with the middle of the television.

Surround speakers

It is usually better to position the surround speakers a little higher.



Large screws

SC-HT17 (x 8)
SC-HT16 SC-HT15 (x 4)

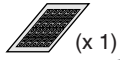
Small screws

SC-HT17 (x 8)
SC-HT16 SC-HT15 (x 4)

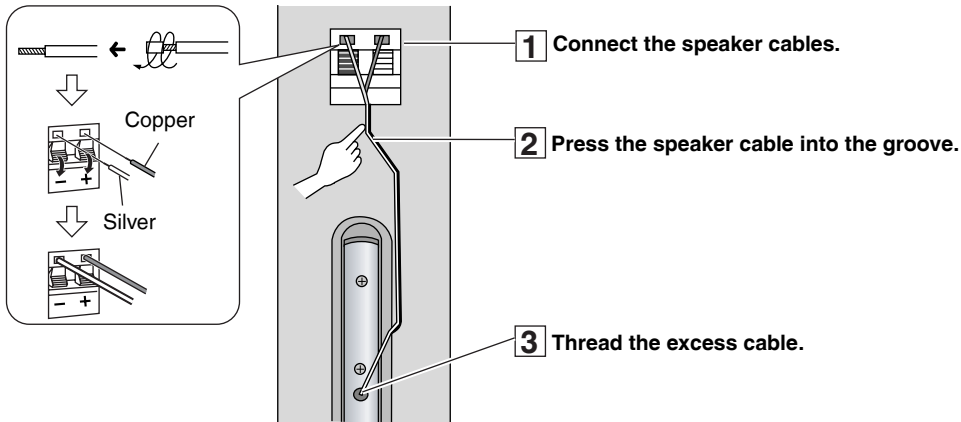
Speaker cable(s)

SC-HT17 (4 m x 1)
SC-HT16 SC-HT15 (4 m x 1) (10 m x 2)

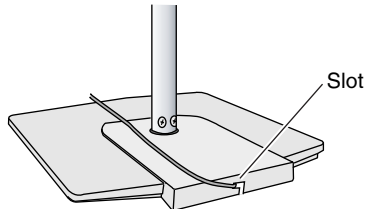
Sticker sheet



3 Connect the speaker cables.



4 Fasten the speaker cable to the base.



5 Attach the stickers to the speaker cables.



① Front speaker (L)

③ Surround speaker (L)

⑤ Center speaker

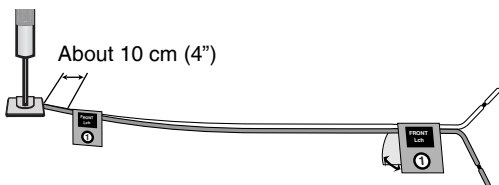
② Front speaker (R)

④ Surround speaker (R)

SC-HT17

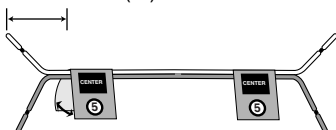
Front and surround speakers

Use the speakers with long cables for the surround speakers (SB-FS880).



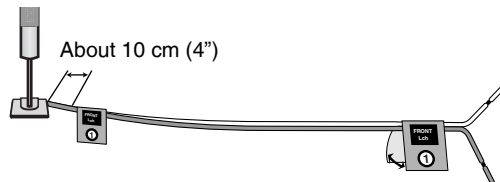
Center speaker

About 10 cm (4")



SC-HT16 SC-HT15

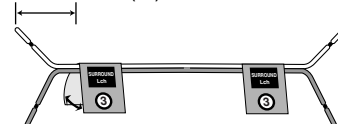
Front speakers



Surround and center speakers

Use the long speaker cables for the surround speakers (SB-FS15).

About 10 cm (4")



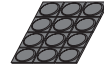
Speaker setup

Supplied accessories

Rubber pads



SC-HT17



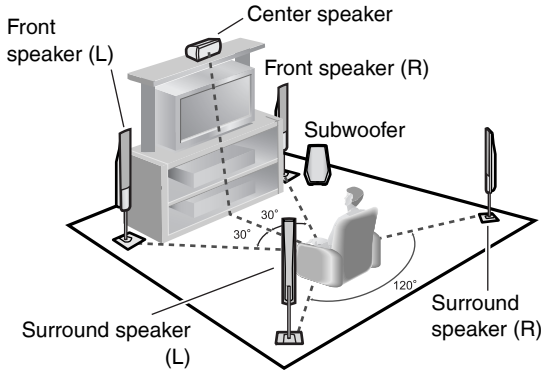
SC-HT16

SC-HT15

Placement and connections of speakers

1 Place the speakers.

e.g., SC-HT17



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

Front speakers (left, right)

Place on the left and right of the TV at seated ear height so that there is good coherency between the picture and sound.

Center speaker

Place underneath or above the center of the TV. Aim the speaker at the seating area.

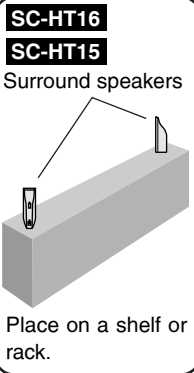
Surround speakers (left, right)

Place on the side of or slightly behind the seating area, higher than ear level.

Subwoofer

The subwoofer can be placed in any position as long as it is at a reasonable distance from the TV.

Note that some experimentation can yield the smoothest low frequency performance. Placement near a corner can increase the apparent output level, but can result in unnatural bass.



Positioning for best effect

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

Note the following points.

- Attach the included rubber pads to the base of the center speaker (SC-HT16 and SC-HT15: center and surround speakers). This prevents vibration from causing the speakers to move or fall over. Use 4 pads per speaker.
- 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.

Attaching the rubber pads

Bottom of surround speaker (SC-HT16 and SC-HT15)



Bottom of center speaker



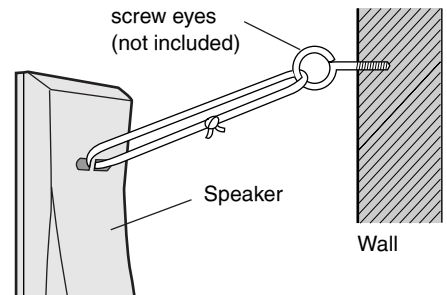
Note

Keep your speakers at least 10 mm (13/32") away from the system for proper ventilation.

Preventing the speakers from falling over

Attach screw eyes (not included) to secure the speakers to a wall (diagram on the right).

- Obtain the screws appropriate to the walls and pillars to which they are going to be fastened.
- Consult with a qualified housing contractor concerning the appropriate procedure when attaching to a concrete wall or a surface that may not have strong enough support. Improper installation may result in damage to the wall or speakers.



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.



Caution

- The main unit and supplied speakers are only to be used as indicated in this manual. Failure to do so may lead to damage to the receiver 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.

2 Connect the speaker cables to the subwoofer.

SC-HT17

SC-HT16 SC-HT15

⊕ Copper
⊖ Silver

Subwoofer

Other speaker setup options

FRONT (L) 1

FRONT (R) 2

6 Ω FRONT

4 Ω SURROUND

4 Ω CENTER

SURROUND (R) 4

SURROUND (L) 3

CENTER 5

⊕ Copper
⊖ Silver

Note
Never short-circuit positive (+) and negative (-) speaker wires.

Step 1
Speaker setup

Attaching to a wall

30 - 35 mm (1-3/16" - 1-3/8")

180 mm (7-1/16")

Wall or pillar

174 mm (6-7/8")

Screw (not included)

∅ 7.5 - 9.4 mm (19/64" - 3/8")

7 - 9 mm (9/32" - 11/32")

∅ 3.0 - 4.0 mm (1/8" - 5/32")

- The wall or pillar on which the speakers are to be attached should be capable of supporting 10 kg (22 lb.) per screw. Consult a qualified building contractor when attaching the speakers to wall. Improper attachment may result in damage to the wall and speakers.
- When mounting the speakers to walls, use a string (not included) to prevent them from falling (► page 6).
- (SC-HT17: front and surround speakers, SC-HT16 and SC-HT15: front speakers) Use of optional speaker cables are recommended when mounting. (You can also remove the speaker cables from the pipes supplied with this system.)

Fitting optional speaker stands

SC-HT16 SC-HT15
Surround speakers

5 mm, Pitch 0.8 mm

60 mm (2-23/64")

Speaker stands (not included)

Plate thickness +7 to 10 mm (9/32" - 25/64")

- 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.

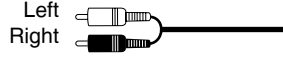
RQT7949

Step 2

Home theater connections

Other accessories

Stereo connection cable (not included)



Coaxial cable (not included)



Video connection cable (not included)



S-Video cable (not included)



Turn off all components before making any connections.
To connect equipment, refer to the appropriate operating instructions.

Step 2

Home theater connections

DVD player

SC-HT17

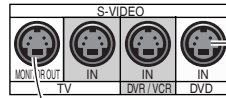
TV (Monitor)



VIDEO IN

S-VIDEO terminals

Use this connection for better picture quality than with the VIDEO terminals.



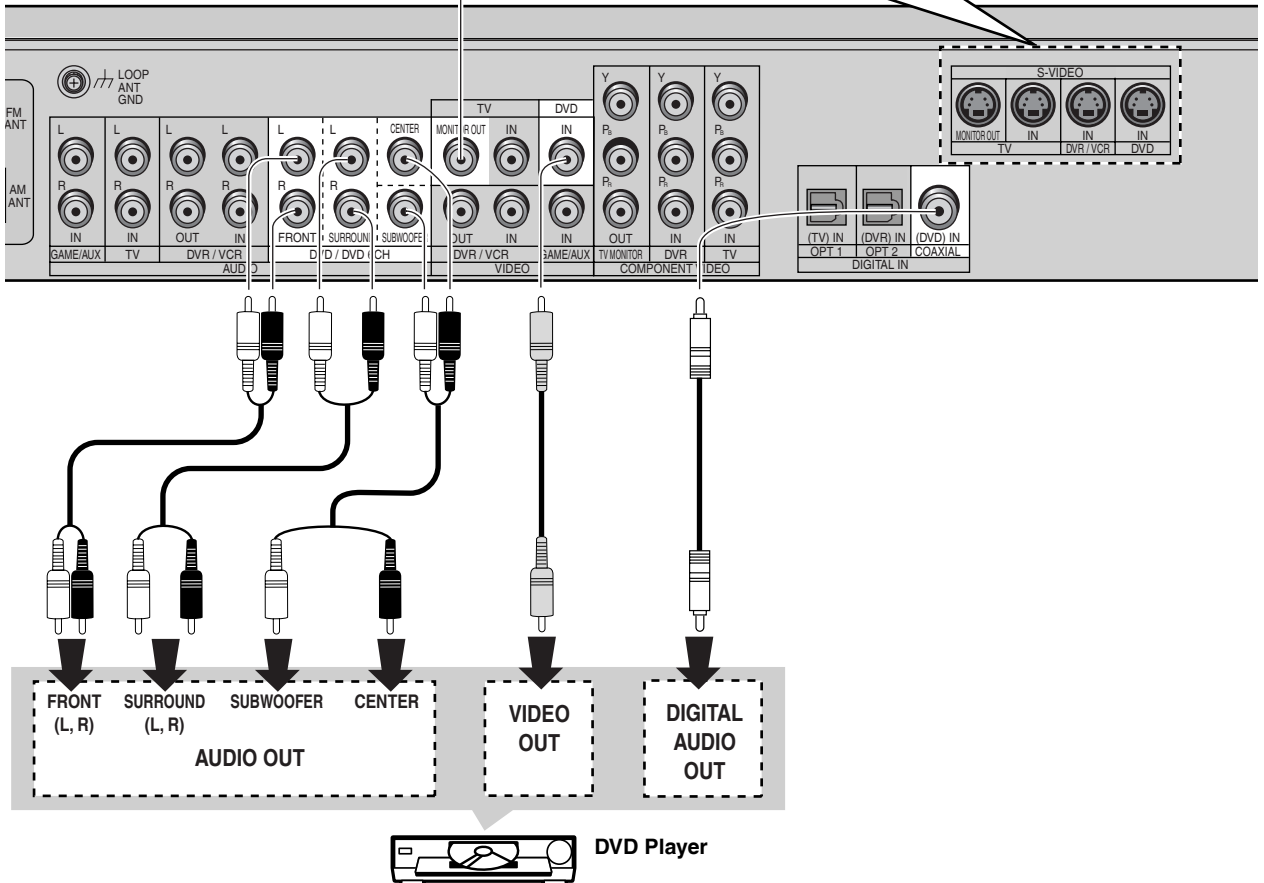
S-VIDEO OUT



S-VIDEO IN



TV (Monitor)



Supplied accessories

System cable



(x 1)

AC power supply cord



(x 1)

Changing the digital input settings

You can change the input settings for the digital terminals if necessary. Note the equipment you have connected to the terminals, then change the settings (➔ page 13).

Notes on digital input

This unit can decode the following signals:

- **Dolby Digital, DTS**
- **PCM, including PCM with sampling frequencies of 96 or 88.2 kHz**

It cannot decode:

- **Other digital signals, such as MPEG**
- **Dolby Digital RF signals from a laser disc player**

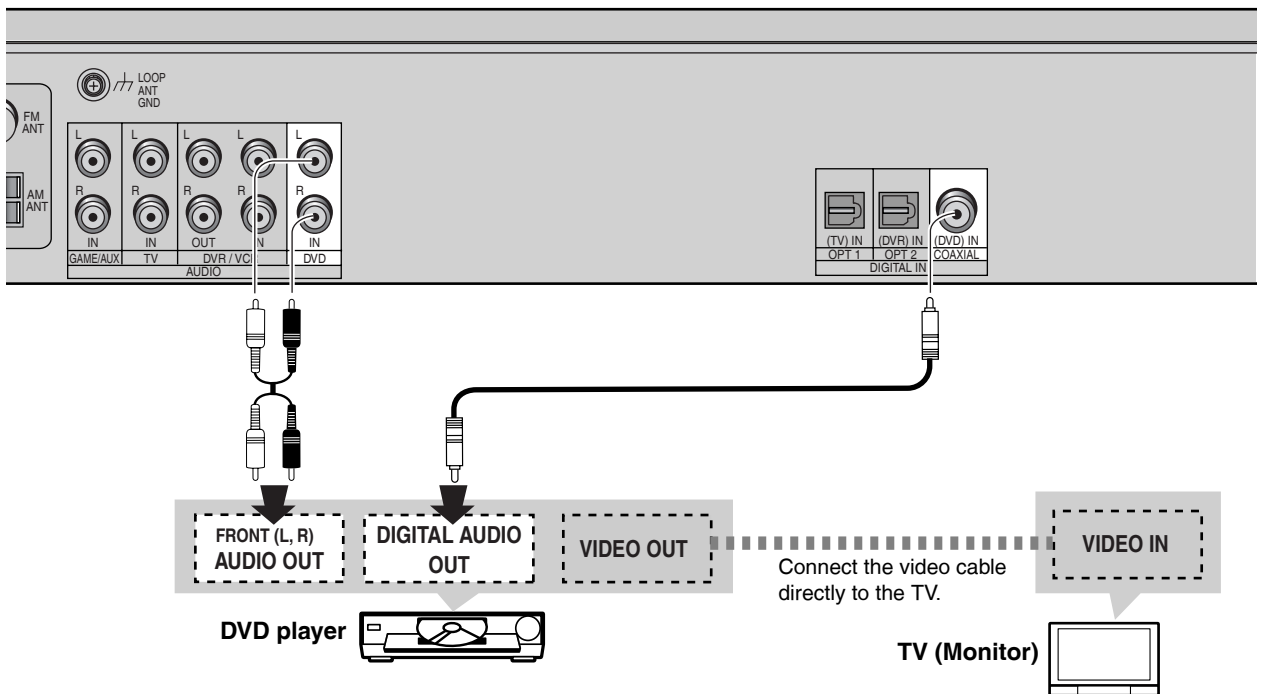
Note

- The included AC power supply cord is for use with this unit only. Do not use it with other equipment.
- Do not use an AC power supply cord from any other type of equipment with this unit.
- Use digital connection to enjoy Dolby Digital or DTS.

DVD player

SC-HT16

SC-HT15



Subwoofer and AC power supply cord

SC-HT17

SC-HT16

SC-HT15

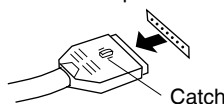
Subwoofer

Household AC outlet (AC 120 V/60 Hz)

AC power supply cord (included)

Connect this cord after all other cables are connected.

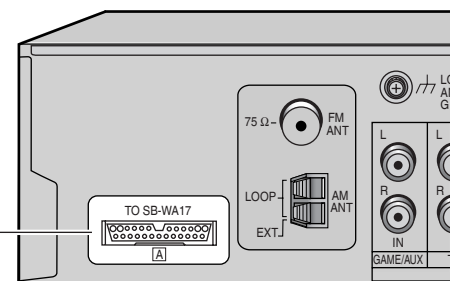
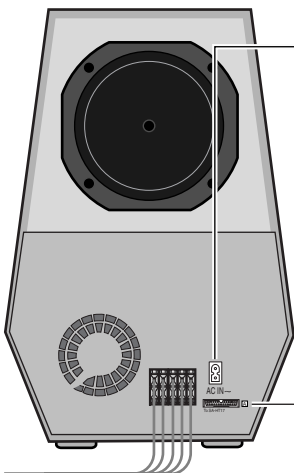
To disconnect
Press the catch and pull out.



System cable (included)

Conserving power

The unit consumes a small amount of power even when it is turned off with [⏻/I, POWER]. 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.

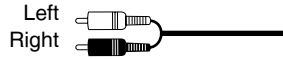


Step 3

Other connections

Other accessories

Stereo connection cable (not included)



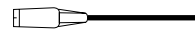
Optical fiber cable (not included)



Video connection cable (not included)



S-Video cable (not included)

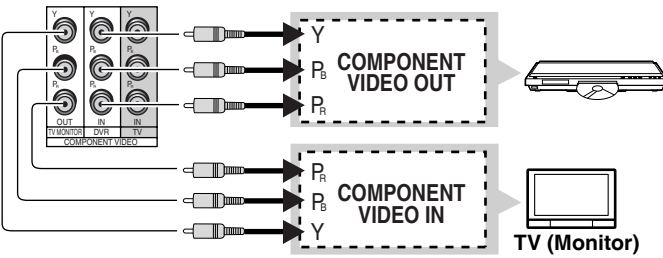


DVD recorder or VCR

SC-HT17

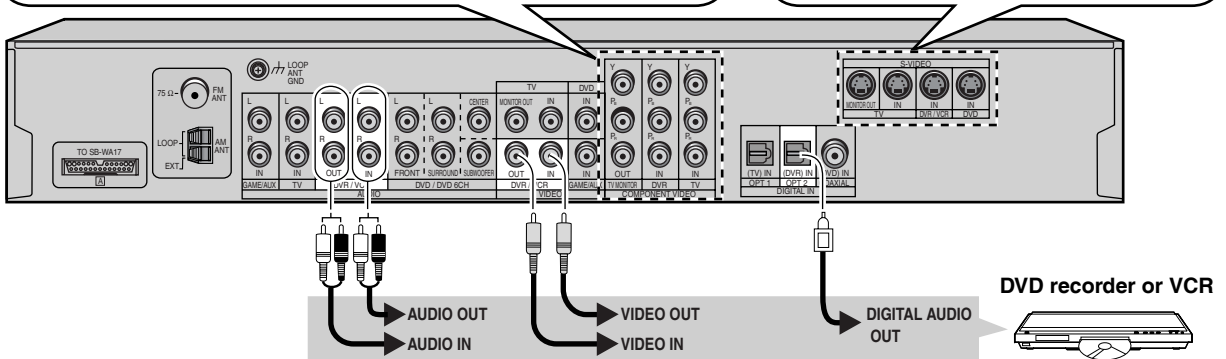
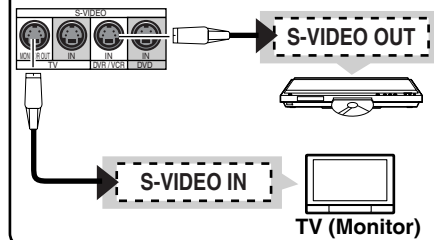
COMPONENT VIDEO terminals

This connection provides high quality pictures by separating the color (P_B and P_R) and the luminance (Y) signals.



S-VIDEO terminals

Use this connection for better picture quality than with the VIDEO terminals.

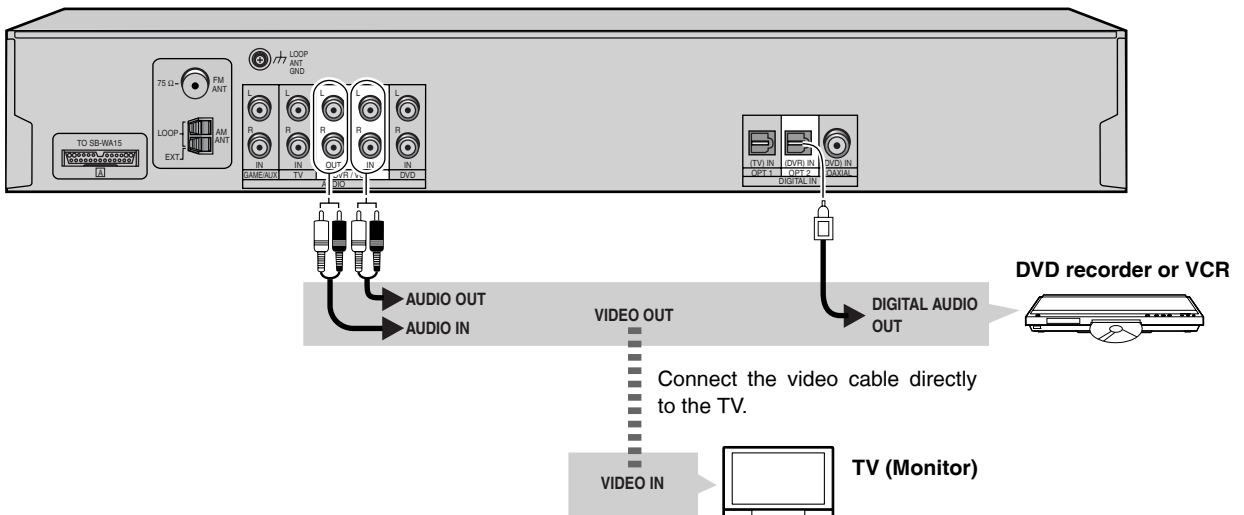


DVD recorder or VCR

SC-HT16

SC-HT15

SC-HT16 Refer to the SC-HT35R SETUP GUIDE when connecting a DMR-ES10 DVD recorder.



Changing the digital input settings

You can change the input settings for the digital terminals if necessary. Note the equipment you have connected to the terminals, then change the settings (➔ page 13).

Note

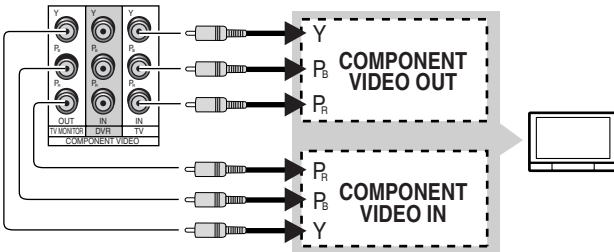
- Use digital connection to enjoy Dolby Digital or DTS.
- Do not bend the optical fiber cable.

TV (Input source)

SC-HT17

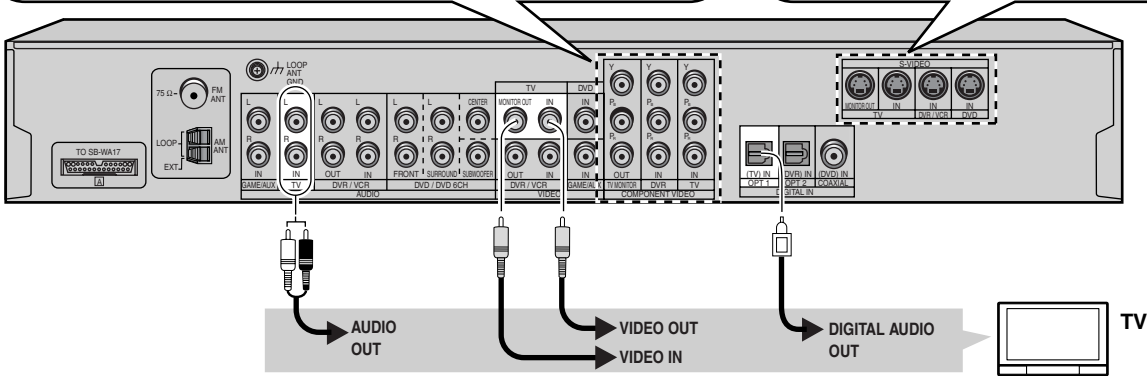
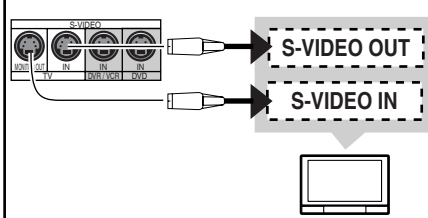
COMPONENT VIDEO terminals

This connection provides high quality pictures by separating the color (P_B and P_R) and the luminance (Y) signals.



S-VIDEO terminals

Use this connection for better picture quality than with the VIDEO terminals.



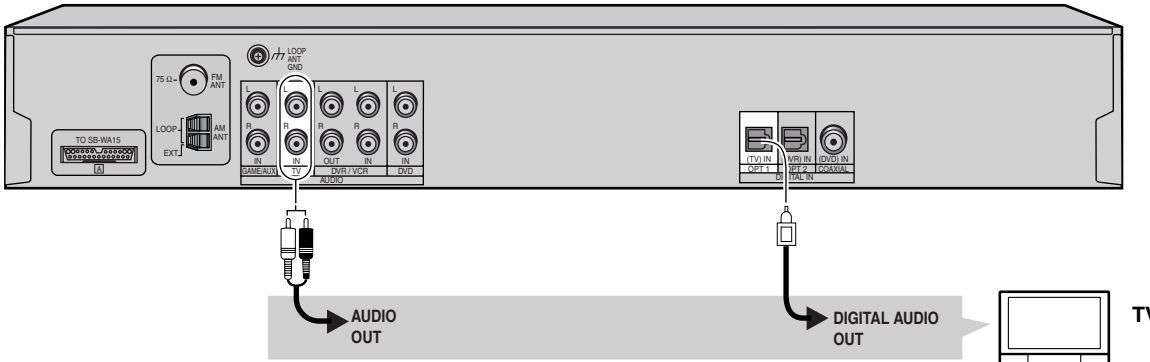
Step 3

Other connections

TV (Input source)

SC-HT16

SC-HT15



Other connections

Supplied accessories

FM indoor antenna



(x 1)

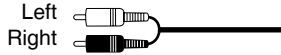
AM loop antenna



(x 1)

Other accessories

Stereo connection cable (not included)



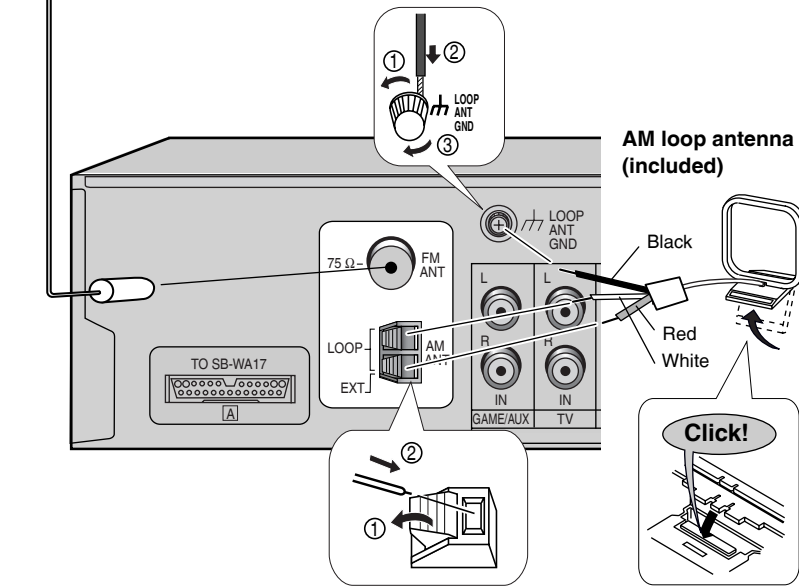
Video connection cable (not included)



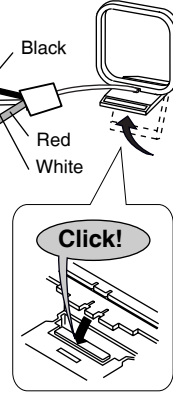
Antennas

FM indoor antenna (included)

Adhesive tape
Fix the end of the antenna where reception is best.



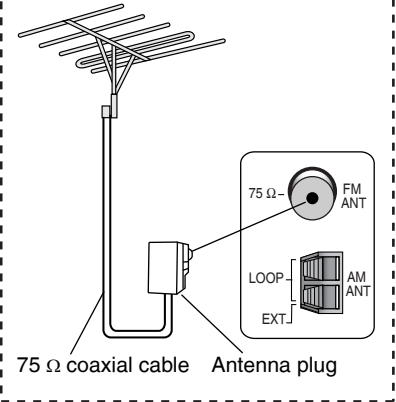
AM loop antenna (included)



For best reception

- FM outdoor antenna (not included)**
- Disconnect the FM indoor antenna.
 - The antenna should be installed by a competent technician.

FM outdoor antenna

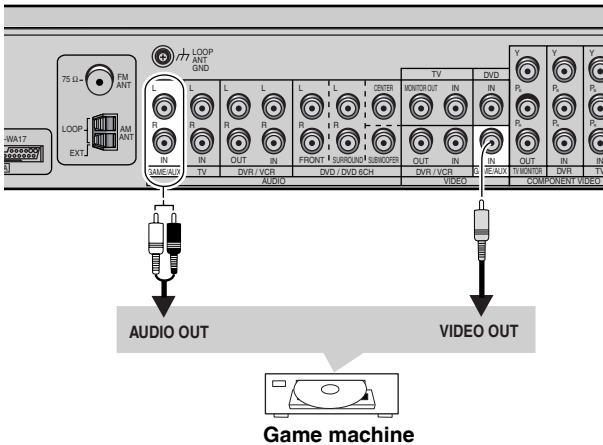


Step 3
Other connections

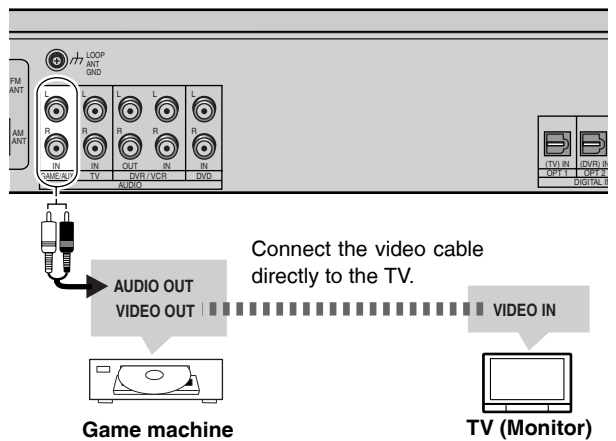
Keep the antenna cord away from DVD players and other cords.

Game machine or other AV equipment

SC-HT17



SC-HT16 SC-HT15



Connect the video cable directly to the TV.

Step 4

Settings

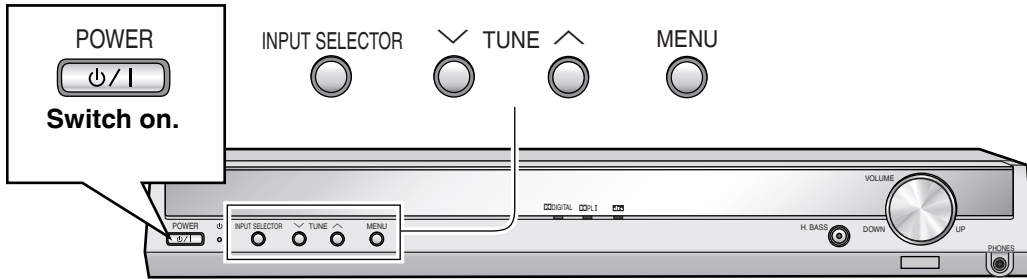
Change the settings to suit your equipment to the environment in which you are using it. Before making any changes, read the descriptions of the settings, note the factory settings and ranges, and refer to the equipment's instructions.

DISTANCE → See below

D-INPUT → See below

DR COMP → See page 20

A/D ATT → See page 20



DISTANCE




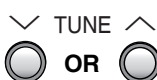
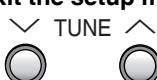
Enter the distance of the front, center and surround speakers from the seating position.





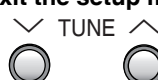
The factory settings are: FRONT: 10 FEET
 CENTER: 10 FEET
 SURROUND: 5 FEET

D-INPUT (digital input)

Change the setting for the DIGITAL IN terminals (OPT1, OPT2, COAXIAL) on the rear of the unit if the equipment you have connected is different to that labeled.

The factory settings are: TV: OPT1
 DVR: OPT2
 DVD: COAX

- 1 Enter the setup mode.**

 Press at the same time.
- 2 Select "DISTANCE".**

 DISTANCE → DR COMP
 D-INPUT ← A/D ATT
- 3 Select the speaker.**

 FRONT → CENTER
 SURROUND ←
- 4 Change the setting.**

 OR
 10 FEET
 3 FEET 30 FEET
 Repeat steps 3 and 4
- 5 Exit the setup mode.**

 Press at the same time.

- 1 Enter the setup mode.**

 Press at the same time.
- 2 Select "D-INPUT".**

 DISTANCE → DR COMP
 D-INPUT ← A/D ATT
- 3 Select the input position.**

 TV → DVR → DVD
- 4 Change the setting.**

 OR
 OPT 1
 OPT 1 ↔ OPT 2 ↔ COAX
 Repeat steps 3 and 4
- 5 Exit the setup mode.**

 Press at the same time.

Note

You can allocate only one piece of equipment per terminal. So for example if you change "TV" from "OPT1" to "OPT2", "DVR" will automatically switch to "OPT1".

Settings

Adjusting speaker output level

Step 4
Settings



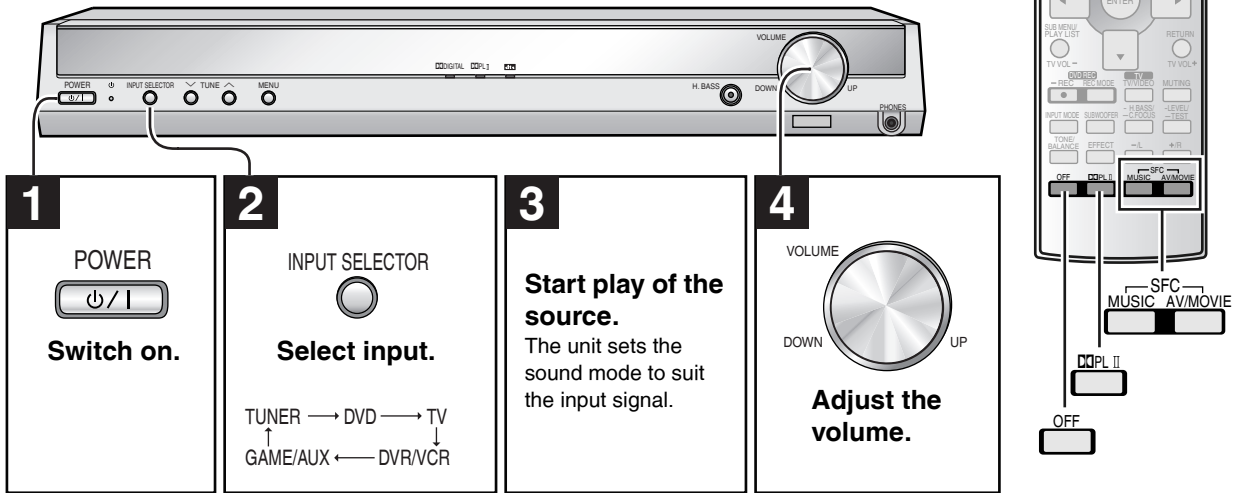
- 1**
-LEVEL/
-TEST
Press and hold
Output the signal.
- 2**
VOLUME
+
-
Adjust the main volume.
- 3**
-LEVEL/
-TEST
Select the speaker channel.
- 4**
-/L +/R
Adjust the level.
Repeat steps 3 and 4
- 5**
-LEVEL/
-TEST
Press and hold
Stop the test signal.

C (center), RS (right surround) and LS (left surround) can be adjusted between -10 dB and $+10$ dB, with 0 dB being the level of the front speakers. Adjust center and surround output to the same apparent level of the front speakers.

For SW (subwoofer), you can select “- -” so there is no output, “MIN” for minimum output, a level between 1 and 19, or “MAX” for maximum output. Adjust subwoofer output so it is balanced with the front speakers.

Subwoofer output is easily influenced by the source. You can also change its level while playing something for better effect (► page 19).

Basic operations



(SC-HT17) When playing video sources connected to DVD
The picture remains on the screen even if you select TUNER.

Adding surround effects to stereo sources

Using Dolby Pro LogicII

Dolby Pro LogicII processor works not only on sources recorded with Dolby Surround, but also on any stereo source.



Press to select a mode from the table at right.

- To cancel, press [OFF].

You can make fine surround settings when in the MUSIC or PANORAMA mode. (➔ page 21)

	MOVIE Use this mode when playing movie software, especially videotapes, recorded in Dolby Surround.
	MUSIC Adds surround effects to stereo sources.
	PANORAMA Sound is spread out more so you feel like you are surrounded by music.

Using the Sound Field Control (SFC)

Enjoy an enhanced sound experience with greater presence and spread by using these SFC modes with PCM or analog stereo sources.



Press to select a mode from the tables at right.

- To cancel, press [OFF].

You can adjust SFC effects. (➔ page 21)

	LIVE Brings you up close for "live" stage performance and smoother vocals.
	POP/ROCK For pop, rock, and other music that has a punch to it.
	VOCAL For adding gloss to vocals.
	JAZZ Conveys the exciting and intimate atmosphere of a jazz club.
	DANCE For dance music and other sounds with a strong beat.
	PARTY This mode uses the front and surround speakers so that sound is in stereo regardless of the direction you are facing.

Note

- Dolby Pro LogicII and SFC modes remain in effect until you turn the mode off.
- When input is PCM with sampling frequencies of 96 or 88.2 kHz, you cannot add surround effects with Dolby Pro LogicII or SFC.
- When input is Dolby Digital or DTS, you cannot use SFC.

	DRAMA For dramas and other material where dialog is important.
	ACTION For action movies and other material where impact is important.
	SPORTS To make you feel like you were in the stadium.
	MUSICAL For musicals and other material where music is important.
	GAME Enjoy gaming with more impact.
	MONO For monaural sound.

Control guide

Main unit

[] Standby indicator

When the unit is connected to the AC mains supply, this indicator lights up in standby mode and goes out when the unit is turned on.

[/I, POWER]

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.

[] DIGITAL, [] PL II, dts]

Lights to indicate the source's input signal and decoding format used.

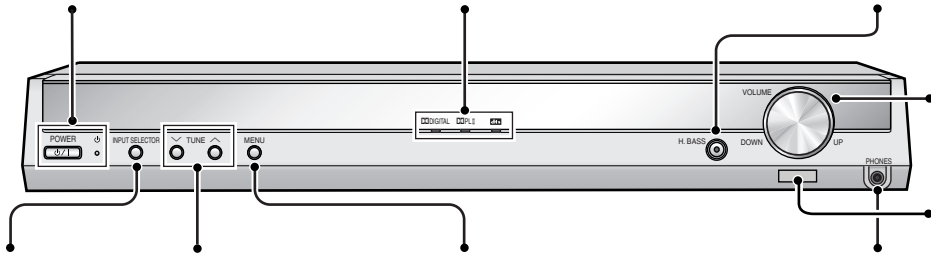
DIGITAL: Dolby Digital sources

PL II: Dolby Pro LogicII decoder is being used

dts: DTS sources

[H.BASS]

For enhancing the bass sound. The indicator lights when the feature is on.

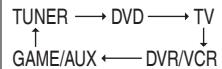


[**VOLUME**]
Volume control.

Remote control signal sensor

[INPUT SELECTOR]

For selecting input. The display changes as follows:



[] TUNE

For tuning the radio and presetting channels.

[MENU]

- For entering various settings.
- Press and hold to exit the MENU mode.

[PHONES]

- Headphone jack
Plug type: 3.5 mm (1/8") stereo
- Sound does not come from the speakers if you connect headphones.
 - Avoid listening for prolonged periods of time to prevent hearing damage.

Display

[DIGITAL INPUT]

Program format indicators
Show the channels contained in the digital input signal.

They do not light when input is analog.

L: Front left channel

C: Center channel

R: Front right channel

LS: Surround left channel

S: If the surround channel is monaural.

RS: Surround right channel

LFE (Low Frequency Effects): Deep-bass effect.

[TUNED, ST, MONO]

Radio indicators

TUNED: A station is tuned.
ST: A stereo FM broadcast is tuned.

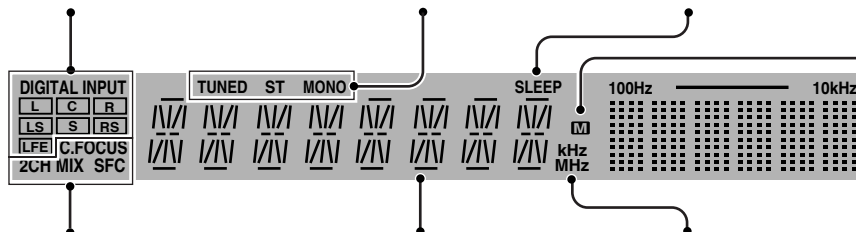
MONO: You have switched to monaural mode to improve reception.

[SLEEP]

Sleep timer indicator.

[M]

Flashes or lights during presetting.



[C.FOCUS, 2CH MIX, SFC]

C.FOCUS: Appears when you are using Center Focus

2CH MIX: Appears when you are listening to a multi-channel source with headphones

SFC: Appears when you are using an SFC mode

General display

Shows the input mode, radio frequency and other general information.

[kHz, MHz]

Frequency unit indicators
kHz: AM, or PCM sampling frequency
MHz: FM

Spectrum analyzer display

Remote control and Subwoofer

This page describes the buttons used to control this unit.
See the guide starting page 22 for the buttons that control other units.

[⏻, RECEIVER]
Standby/on button.

[1, 2, 3, 4, 5, 6, 7, 8, 9, 0]
To enter radio frequencies and channels.
[≥ 10 , ENTER]
To enter two digit channels.
[DISC, DIRECT TUNING]
To enable selection of radio stations by frequency.
[\wedge , CH, \vee]
For selecting preset radio channels.

[SUBWOOFER]
For selecting subwoofer level.
[-H.BASS/-C.FOCUS]

- For enhancing the bass sound.
- Press and hold to select center focus mode.

[INPUT MODE]
For selecting AUTO, ANALOG or DIGITAL.

[TONE/BALANCE]
To adjust the bass, treble and front speaker balance.

[OFF]
To cancel surround effect.
[DOLBY PL II]
For selecting a Dolby Pro LogicII mode: MOVIE, MUSIC or PANORAMA.
[MUSIC]
For selecting SFC modes: LIVE, POP/ROCK, VOCAL, JAZZ, DANCE or PARTY.
[AV/MOVIE]
For selecting SFC modes: DRAMA, ACTION, SPORTS, MUSICAL, GAME or MONO.

SC-HT17
[DVD PLAYER, -ANALOG 6CH]
[TV] [DVD RECORDER] [VCR]

SC-HT16 SC-HT15
[DVD PLAYER] [TV]
[DVD RECORDER] [VCR]
Input mode and remote control mode buttons.

[DVD PLAYER, -ANALOG 6CH] (SC-HT17)
Press and hold and DVD input switches between 6-channel and 2-channel.

[-TUNER/-BAND]
For selecting TUNER.
After selecting TUNER, press and hold to switch between FM and AM.

[+, -, VOLUME]
To adjust the volume.

[MUTING]
To mute the volume.

[-LEVEL/-TEST]

- Use when adjusting speaker level.
- Press and hold to start the speaker test signal.

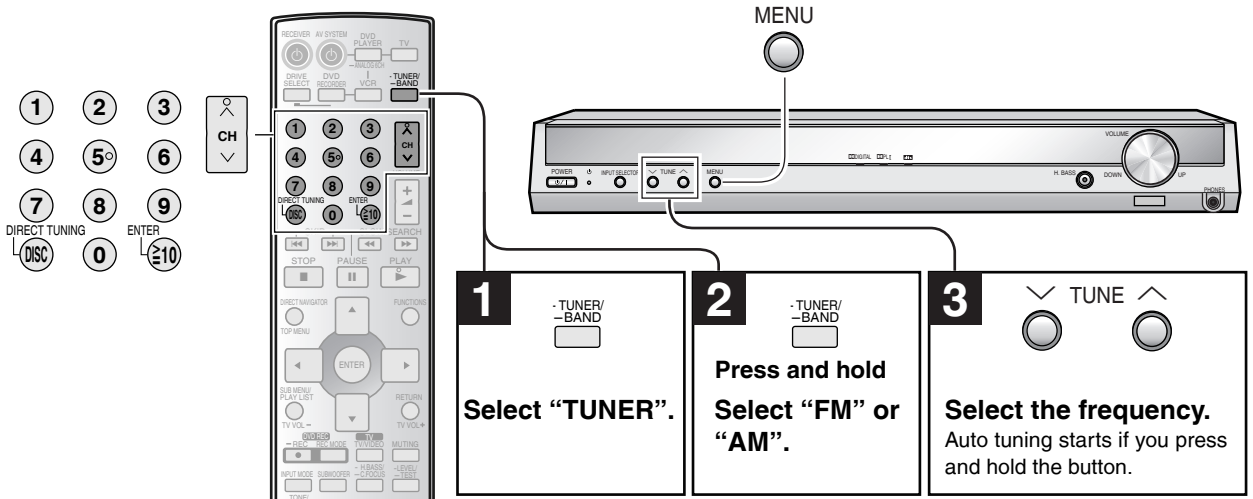
[EFFECT]
Use when adjusting Dolby Pro LogicII or SFC effects.

[-/L, +/R]
First select EFFECT, LEVEL, TONE or BALANCE, then press [-/L] or [+/R] to adjust.

[AC IN]
This indicator lights when the unit is connected to the AC power supply.

(SC-HT17) When DVD ANALOG 6CH input is selected:
Set your DVD player speaker output to "small", provided it has a speaker output setting function.

The radio



Direct tuning

Input the frequency of the station.

Remote control

1. Press [-TUNER/-BAND] to select "TUNER".
2. Press and hold [-TUNER/-BAND] to select "FM" or "AM".
3. Press [DISC, DIRECT TUNING].
4. Press the numbered buttons to enter the frequency.

e.g. To select 107.9 MHz, press [1] → [0] → [7] → [9]

- If you do not press a button while the cursor is flashing, the display returns to the frequency being received.
- If the frequency has not been input correctly, "ERROR" will be displayed.

Automatic presetting

The FM stations the unit can receive are preset in channels 1 to 30. The AM stations the unit can receive are preset in channels 21 to 30. (FM stations are replaced if any were preset in these channels.)

Preparation: Select "FM" or "AM".

Main unit

1. Press [MENU] to select "MEMORY".
2. Press and hold [TUNE ∨].

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

If you press and hold [TUNE ∧], it starts from the current frequency.

During automatic presetting, the memory indicator (M) flashes and the frequency scrolls. The memory indicator and channel numbers are displayed for a second when a station is preset.

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

To cancel

Press and hold [MENU].

Manual presetting

Preset the stations one at a time.

Preparation: Tune to the station you want to preset.

Main unit

1. Press [MENU] to select "MEMORY".
2. Press [TUNE ∨ or ∧] to select the channel.
3. Press [MENU] to store.

To cancel

Press and hold [MENU].

For your reference

FM stations can also be preset in the MONO mode.

Selecting channels

Remote control

Press [∧, CH, ∨].

or

Press the numbered buttons.

For channels 1 to 9, press the corresponding number.

For channels 10 or over, press [≥ 10, ENTER], then the two digits.

e.g. To select channel 21: [≥ 10, ENTER] → [2] → [1]

FM mode

You can improve FM reception by switching reception to monaural.

Main unit

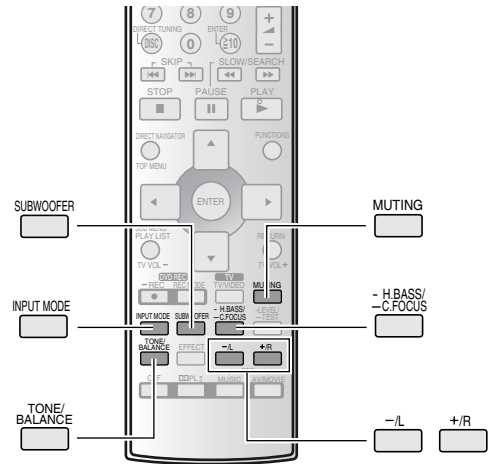
1. Press [MENU] to select "FM MODE".
2. Press [TUNE ∨ or ∧] to select "MONO".
Select "AUTO" to cancel.
3. Press [MENU].

"MONO" lights.

To switch between FM and AM on the main unit

1. Press [MENU] to select "BAND".
2. Press [TUNE ∨ or ∧] to select "FM" or "AM".
3. Press [MENU].

Other functions



Input mode

This unit automatically detects whether input is digital or analog, but you can fix the input mode.

Remote control

Press [INPUT MODE] to select "AUTO", "ANALOG" or "DIGITAL".

Tone

You can adjust the level of the bass and treble.

Remote control

1. Press [TONE/BALANCE] to select "BASS" or "TREBLE".
2. Press [-/L] or [+/R] to adjust bass/treble.

Note

- Input signals must be either analog or PCM, and Dolby Pro LogicII and SFC must be off.
- (SC-HT17) You cannot adjust the tone if DVD ANALOG 6CH is selected.

Balance

You can adjust the balance of the front speakers.

Remote control

1. Press [TONE/BALANCE] to select "BALANCE".
2. Press [-/L] or [+/R] to adjust.

Subwoofer level

Remote control

Press [SUBWOOFER].

Adjust the level in 5 steps:

SW MIN, SW 5, SW 10, SW 15, and SW MAX.

Select SW - - - to stop output.

Note

- Sound can be distorted if you raise the volume while subwoofer level is high. Reduce subwoofer level if this occurs.
- (SC-HT17) You cannot adjust the subwoofer level if DVD ANALOG 6CH is selected.

H.Bass

You can enhance low-frequency sound so that heavy bass sound can be heard clearly, even if the acoustics of your room are not optimal.

Remote control

Press [-H.BASS/-C.FOCUS].

Main unit

Press [H.BASS].

The indicator lights.

To cancel

Press [-H.BASS/-C.FOCUS] or [H.BASS] again.

Note

- You cannot use H.Bass when you are using headphones.
- Actual effect depends on the disc.

Center focus

(Disc where the dialogue is recorded in the center channel) You can make the sound of the center speaker seem like it is coming from within the television.

Remote control

Press and hold [-H.BASS/-C.FOCUS].

"C.FOCUS" lights.

The factory setting is off.

The center focus cannot be used in the following cases:

- When input signal is PCM or analog stereo.
- (SC-HT17) When DVD ANALOG 6CH is selected.

Muting

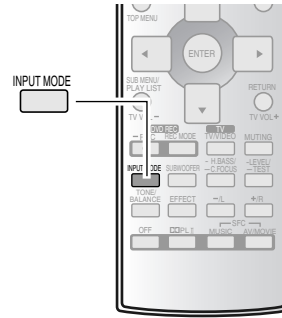
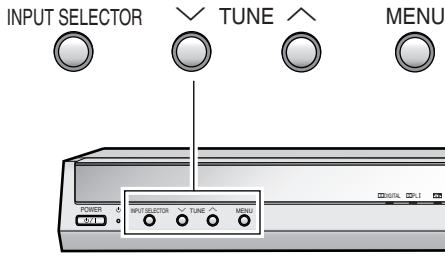
Remote control

Press [MUTING].

To cancel

Press [MUTING] again.

Muting is also canceled when the unit is turned off.



A/D attenuator

Turn the A/D attenuator on if “OVERFLOW” lights frequently when using 2-channel analog input.

Main unit

1. Press [TUNE ∨ and ∧] at the same time to enter the setup mode.
2. Press [INPUT SELECTOR] to select “A/D ATT”.
3. Press [TUNE ∨ or ∧] to select “ON” or “OFF”.
4. Press [TUNE ∨ and ∧] at the same time to exit the setup mode.

Dynamic range compression

Change this setting to listen to software recorded with Dolby Digital at low volume (such as late at night) and maintain audio clarity. It reduces the peak level in loud scenes without affecting the sound field.

Main unit

1. Press [TUNE ∨ and ∧] at the same time to enter the setup mode.
2. Press [INPUT SELECTOR] to select “DR COMP”.
3. Press [TUNE ∨ or ∧] to select “OFF”, “STANDARD” or “MAX”.
4. Press [TUNE ∨ and ∧] at the same time to exit the setup mode.

OFF:

The software is played with the original dynamic range (factory setting).

STANDARD:

The level recommended by the producer of the software for household viewing.

MAX:

The maximum allowable compression (recommended for night viewing).

Dimmer

Dim the display for better viewing in a darkened room.

Main unit

1. Press [MENU] to select “DIMMER”.
2. Press [TUNE ∨ or ∧] to select “OFF” or “ON”.
3. Press [MENU].

Sleep timer

The SLEEP timer can turn the unit off after a set time. It does not control any other components.

Main unit

1. Press [MENU] to select “SLEEP”.
2. Press [TUNE ∨ or ∧] to select the desired time.
The display changes as follows:
OFF ↔ SLEEP 30 ↔ SLEEP 60 ↔ SLEEP 90 ↔ SLEEP 120 (minutes)
3. Press [MENU].

The display dims even when the dimmer is “OFF”.

To check the setting

1. Press [MENU] to select “SLEEP”.
2. Press [TUNE ∨ or ∧] once. The time remaining appears.
3. Press [MENU].

To change a setting

Repeat the procedure from the beginning.

PCM/DTS fix mode

In rare cases, the unit may have trouble recognizing the digital signals on discs.

- With the PCM signals on CDs, this may cause the beginning of a track to be cut off. Engage the PCM FIX mode if this occurs.
- With DTS, the signals may not be recognized at all. Engage the DTS FIX mode if this occurs.

While the input source is selected:

Remote control

1. Press [INPUT MODE] to select “DIGITAL”
2. Press and hold [INPUT MODE] for four seconds.

The current mode is displayed. Press again to change the mode.

Each time you press the button:

AUTO → PCM FIX → DTS FIX

When a FIX mode is on, the unit cannot process other signals. This may cause noise to be output. Select “AUTO” if this occurs. The mode returns to AUTO when you switch the unit to standby.

For your reference

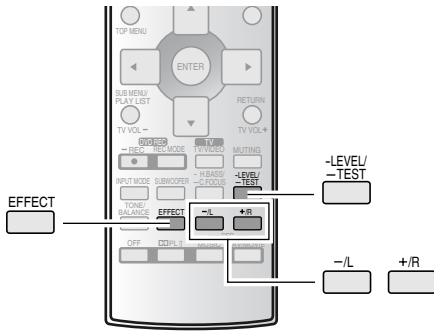
If you are playing a DTS CD that contains both DTS and PCM, but it isn't playing properly, then do the following after step 1 above:

On the Main unit

1. Press [MENU] to select “DTS-PCM”.
2. Press [TUNE ∨ or ∧] to select “ON”.
3. Press [MENU].

If this causes noise to occur, return the setting to “OFF”. (This setting is effective for each digital source.)

Other functions



Center Width Control "C-WIDTH"

You can adjust the effect of MUSIC and PANORAMA with the center width control.

This adjustment helps you realize a more natural sound image when listening to music. Move sound out into the front speakers to improve the overall front image, or add sound to the center speaker to fix the center image.

You can choose a level between 0 (the center speaker is dominant) and 7 (center sound is spread out).

The default level is 3.

Remote control

1. Press [EFFECT] to select "C-WIDTH".
2. Press [-/L] or [+R] to adjust the effect.

Dimension Control "DIMEN"

You can adjust the effect of MUSIC and PANORAMA with the dimension control.

You can make up for differences in the output level of the front and surround speakers.

You can choose a level between -3 and +3 — Increase the level to move sound to the front speakers, decrease to move it to the surround speakers.

The default is level 0.

Remote control

1. Press [EFFECT] to select "DIMEN".
2. Press [-/L] or [+R] to adjust the effect.

Adjusting SFC effects

You can adjust the sound field by adjusting the level of the speakers and the delay time of the surround speakers. These adjustments can be made for each SFC mode.

To adjust the speaker level

Remote control

1. Press [-LEVEL/-TEST] to select the speaker channel.

Each time you press the button:

C → RS → LS → SW

2. Press [-/L] or [+R] to adjust the level.

C, RS, and LS: -10 dB to +10 dB

SW: --- (off) ↔ MIN ↔ 1 - 19 ↔ MAX

To adjust the delay time

Remote control

1. Press [EFFECT].
2. Press [-/L] or [+R] to change the delay time.

The default is 50 mSEC. (10 mSEC - 100 mSEC)

Making a recording



Recording on other equipment

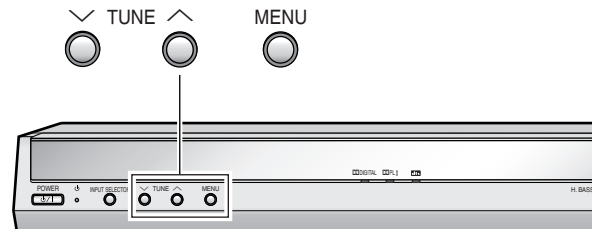
You can record to a unit connected to DVR/VCR OUT. You can record any analog source except DVR/VCR IN.

1. Press [INPUT SELECTOR] to select the source to be recorded.
2. Begin recording.
3. Start the source to be recorded.

Note

- (SC-HT17) When you select DVD ANALOG 6CH mode, only sound from the front left and right channels is recorded.
- This unit cannot record digital sources. Connect through the analog terminals and select "ANALOG" input.

The RESET function



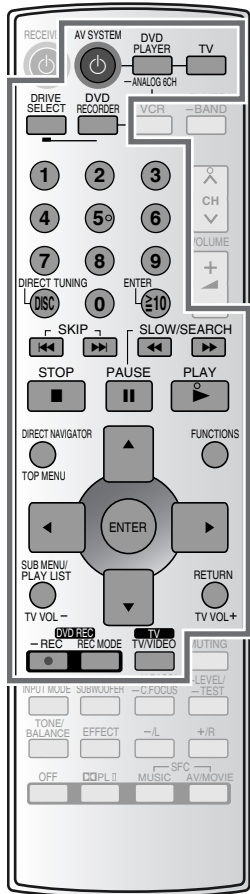
The operation settings for the unit will be initialized to the settings made at the time of shipment. However, any preset radio stations will not be erased.

1. Press [MENU] to select "RESET".
2. Press [TUNE ∨ or ∧] to select "YES".
To cancel, select "NO".
3. Press [MENU].

Remote control operation guide

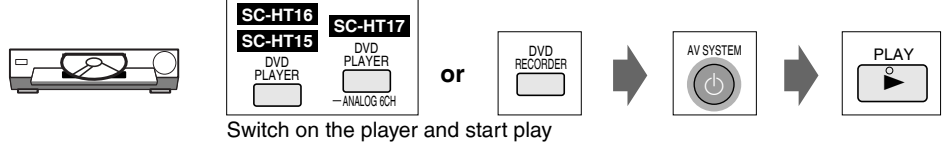
This remote control can operate Panasonic and Technics audiovisual components that have remote control sensors. You may need to change the remote control code. (➔ page 24)
Note that this remote control cannot operate some equipment and that it may not be able to perform some operations.

DVD

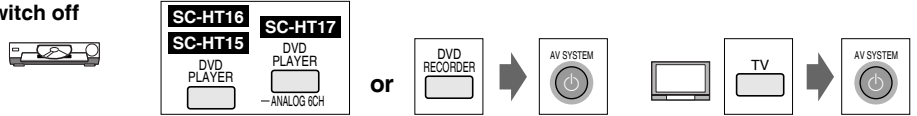


Watching DVDs

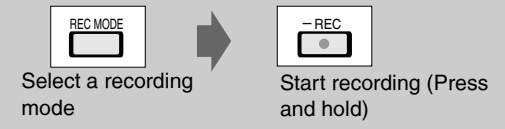
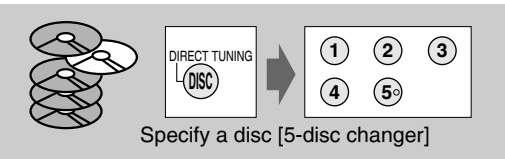
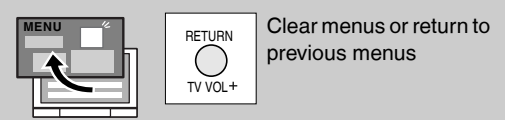
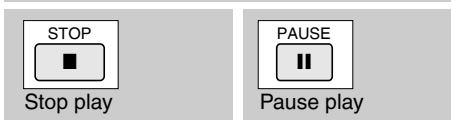
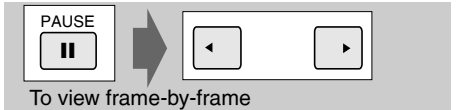
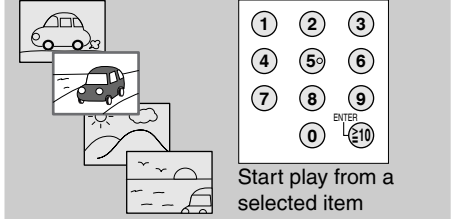
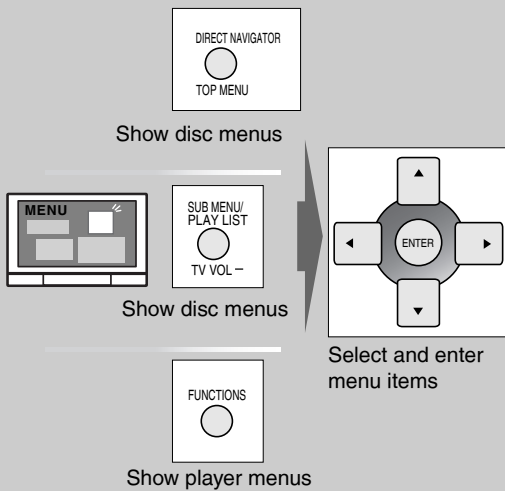
Switch on



Switch off



Operating the DVD player/DVD recorder



Operations

DRIVE SELECT

Switch between DVD and HDD
[DVD recorder with HDD]

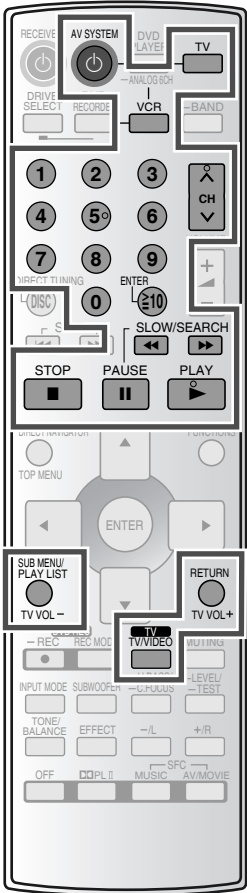
When you cannot switch to the disc or hard disk drive, after performing the following operations, press the button again.

1. While pressing [ENTER], press and hold [8] or [9] for approximately 2 seconds.
2. Press [DVD RECORDER]. The factory setting is [9].

When using a Panasonic DVD recorder

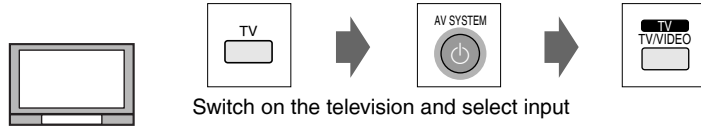
Change the unit's remote control code to match the remote control code of the DVD recorder.
Preparations: Check the remote control code of the DVD recorder.
For about one second hold down both [ENTER] and the button ([1], [2] or [3]) which the same number as the remote control code set by the DVD recorder.
The factory setting is [1].

TV/VCR

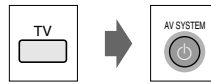


Watching TV

Switch on



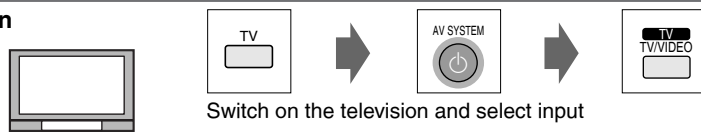
Switch off



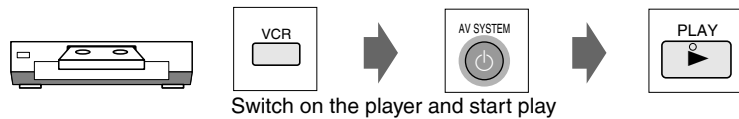
Operating the TV

Watching videotapes

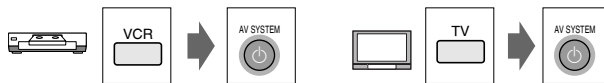
Switch on



Switch on



Switch off



Operating the video deck

Remote control operation guide

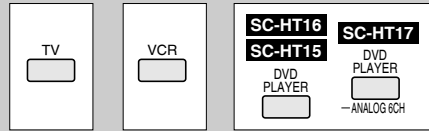
Using this remote control to operate equipment manufactured by Panasonic, Technics, and other companies

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

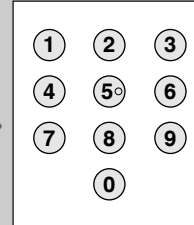


Changing the codes

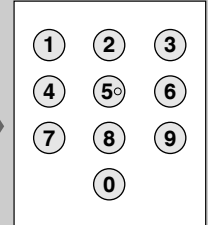
TV VCR DVD player



Press and hold the button corresponding to the equipment



Enter the first digit



Enter the second digit

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

- Re-enter the codes after you change the batteries.

Code table

	TV	VCR	DVD player		TV	VCR	DVD player
PANASONIC	01,02,26	01,02,09,33	01,40	ORITRON	—	—	24
AIWA	—	—	23	PHILCO	06,07	02,09,12,30	—
APEX	—	—	20,35,36	PHILIPS	06	02,09,12	04,16
BOSE	—	—	39	PIONEER	02,10,19	09	03
DENON	—	—	01,17	POLKAUDIO	—	—	16
FERGUSON	—	—	02	QUASAR	02	01,02,09,33	—
FISHER	14	13,14,15,18,34	—	RAITE	—	—	13
FUNAI	—	08,30	18	RCA	03,07,09,13 23,24,25	02,03,04,09 10,11,12,23 24,26	02
G.E.	02,03,07,09	02,03,11	—	SABA	—	—	02
GOLDSTAR	07,15	27	—	SAMPO	—	—	14
GO-VIDEO	—	—	12	SAMSUNG	—	—	10
HARMAN KARDON	—	—	34	SANYO	14	14,18,34	—
HITACHI	05,07	09,10,11	11	SHARP	08,21	16,17	08
JVC	12	19,25,31,38 39,40	09	SHINTOM	—	32	—
KENWOOD	—	—	15,29	SILVANIA	—	—	18
KLH	—	—	32	SMC	—	—	25
KONIKA	—	—	19	SONY	04	05,06,07,35 36,37	05,26,27 28
KOSS	—	—	31	SYLVANIA	06,07,15	02,09,12,30	—
LXI	03,06,07,10 14,15	10,13,14,15 18,27,30	—	SYMPHONIC	17	30	—
MAGNAVOX	06,07,11,15,22	02,09,12	—	TECHNICS	—	—	01
MINTEK	—	—	38	THOMSON	—	—	02
MITSUBISHI	07,15,16,21	21,22,28,29	06	TOSHIBA	10,21	23,24	04
NEC	07,15	19,25,31,38	—	VENTURER	—	—	32
NEXTBASE	—	—	37	VIALTA	—	—	31
NORDMENDE	—	—	02	YAMAHA	—	—	01,22,30
ONKYO	—	—	21,33	ZENITH	18,20	20	07,12

Specifications (IHF'78)

■ AMPLIFIER SECTION

RMS output power of each channel driven
10 % total harmonic distortion

1 kHz front CH	[SC-HT17] 170 W per channel (6 Ω) [SC-HT16] [SC-HT15] 70 W per channel (4 Ω)
1 kHz surround CH	70 W per channel (4 Ω)
1 kHz center CH	260 W per channel (4 Ω)
100 Hz subwoofer CH	260 W per channel (4 Ω)
Total RMS output power	[SC-HT17] 1000 W [SC-HT16] [SC-HT15] 800 W

Rated minimum sine wave RMS power output
1 % total harmonic distortion (Dolby Digital mode)

120 Hz-20kHz front CH	[SC-HT17] 100 W per channel (6 Ω) [SC-HT16] [SC-HT15] 45 W per channel (4 Ω)
120 Hz-20 kHz surround CH	45 W per channel (4 Ω)
120 Hz-20 kHz center CH	140 W per channel (4 Ω)
45 Hz-120 Hz subwoofer CH	150 W per channel (4 Ω)
Total FTC output power	[SC-HT17] 580 W [SC-HT16] [SC-HT15] 470 W

Rated minimum sine wave RMS power output
1 % total harmonic distortion (Stereo mode)

120 Hz-20 kHz front CH	[SC-HT17] 90 W per channel (6 Ω) [SC-HT16] [SC-HT15] 35 W per channel (4 Ω)
45-120 Hz subwoofer CH	150 W per channel (4 Ω)
Total FTC output power	[SC-HT17] 330 W [SC-HT16] [SC-HT15] 220 W

Total harmonic distortion

Half power at 1 kHz (Front CH)	[SC-HT17] 0.1 % (6 Ω) [SC-HT16] [SC-HT15] 0.1 % (4 Ω)
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Input sensitivity

DVD, DVR/VCR, TV, GAME/AUX	400 mV, IHF'66
S/N (IHF A)	
DVD, DVR/VCR, TV, GAME/AUX	75 dB (85 dB, IHF'66)

Input impedance

DVD, DVR/VCR, TV, GAME/AUX	47 kΩ
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Tone controls

BASS	50 Hz, +10 to -10 dB
TREBLE	20 kHz, +10 to -10 dB

Digital input	OPTICAL	2
	COAXIAL	1

■ VIDEO SECTION (SC-HT17)

Output voltage at 1 V input (unbalanced)	1±0.1 Vp-p
Maximum input voltage	1.5 Vp-p
Input/output impedance	75 Ω

■ FM TUNER SECTION

Frequency range	87.9-107.9 MHz
Sensitivity	11.2 dBf (2 μV, IHF '58)
50 dB quieting sensitivity	
MONO	18.3 dBf (4.5 μV, IHF '58)
STEREO	38.3 dBf (45 μV, IHF '58)
Total harmonic distortion	
MONO	0.2%
STEREO	0.3%
S/N	
MONO	71 dB
STEREO	65 dB
Frequency response	20 Hz-15 kHz, +1 dB, -2 dB
Image rejection at 98 MHz	40 dB
Stereo separation	
1 kHz	40 dB
Antenna terminal	75 Ω (unbalanced)

■ AM TUNER SECTION

Frequency range	530-1710 kHz
Sensitivity	450 μV/m
Selectivity	20 dB

■ SPEAKER SECTION

Front speaker (SC-HT17:SB-FS930) (SC-HT16:SB-FS880) (SC-HT15:SB-FS880)

Type	[SC-HT17] 2 Way, 3 Speakers, Bass-ref. [SC-HT16] [SC-HT15] 2 Way, 2 Speaker, Bass-ref.
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Speaker unit

Full range	[SC-HT17] 8 cm (3-1/8") cone type x 2, 6 Ω [SC-HT16] [SC-HT15] 8 cm (3-1/8") cone type, 4 Ω
Super tweeter	[SC-HT17] 6 cm (2-3/8") Ring Shaped Dome type, 6 Ω [SC-HT16] [SC-HT15] 6 cm (2-3/8") Ring Shaped Dome type, 4 Ω
Input power (IEC)	[SC-HT17] 170 W (Max) [SC-HT16] [SC-HT15] 70 W (Max)
Output sound pressure level	[SC-HT17] 84 dB/W (1.0 m) [SC-HT16] [SC-HT15] 81 dB/W (1.0 m)
Crossover frequency	7 kHz

Frequency range

[SC-HT17] 75 Hz-50 kHz (-16 dB)
90 Hz-45 kHz (-10 dB)
[SC-HT16] [SC-HT15] 78 Hz-50 kHz (-16 dB)
90 Hz-45 kHz (-10 dB)

Dimensions (W x H x D)

260 x 1172 or 1233 x 269 mm
(10-1/4" x 46-1/8" or 48-9/16" x 10-9/16")

Mass

[SC-HT17] 4.4 kg (9.6 lb.)
[SC-HT16] [SC-HT15] 3.9 kg (8.6 lb.)

Surround speaker (SC-HT17:SB-FS880) (SC-HT16:SB-FS15) (SC-HT15:SB-FS15)

Type	2 Way, 2 Speaker, Bass-ref.
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Speaker unit

Full range	8 cm (3-1/8") cone type, 4 Ω
[SC-HT17] Super tweeter	6 cm (2-3/8") Ring Shaped Dome type, 4 Ω
[SC-HT16] [SC-HT15] Tweeter	Piezo type, 4 Ω
Input power (IEC)	70 W (Max)
Output sound pressure level	[SC-HT17] 81 dB/W (1.0 m) [SC-HT16] [SC-HT15] 80 dB/W (1.0 m)
Crossover frequency	[SC-HT17] 7 kHz [SC-HT16] [SC-HT15] 5 kHz

Frequency range

[SC-HT17] 78 Hz-50 kHz (-16 dB)
90 Hz-45 kHz (-10 dB)
[SC-HT16] [SC-HT15] 85 Hz-30 kHz (-16 dB)
95 Hz-27 kHz (-10 dB)

Dimensions (W x H x D)

[SC-HT17] 260 x 1172 or 1233 x 269 mm
(10-1/4" x 46-1/8" or 48-9/16" x 10-9/16")
[SC-HT16] [SC-HT15] 100 x 324 x 111 mm
(3-15/16" x 12-3/4" x 4-3/8")

Mass

[SC-HT17] 3.9 kg (8.6 lb.)
[SC-HT16] [SC-HT15] 0.9 kg (2.1 lb.)

Center speaker (SC-HT17:SB-PC930) (SC-HT16:SB-PC15) (SC-HT15:SB-PC15)

Type	2 Way, 3 Speakers, Bass-ref.
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Speaker unit

Full range	6.5 cm (2-1/2") cone type x 2, 4 Ω
[SC-HT17] Super tweeter	6 cm (2-3/8") Ring Shaped Dome type, 4 Ω
[SC-HT16] [SC-HT15] Tweeter	6 cm (2-3/8") cone type, 4 Ω
Input power (IEC)	260 W (Max)
Output sound pressure level	82 dB/W (1.0 m)
Crossover frequency	5 kHz
Frequency range	[SC-HT17] 110 Hz-50 kHz (-16 dB)

140 Hz-45 kHz (-10 dB)
[SC-HT16] [SC-HT15] 110 Hz-45 kHz (-16 dB)
140 Hz-35 kHz (-10 dB)

Dimensions (W x H x D) 320 x 84 x 95.5 mm (12-5/8" x 3-5/16" x 3-3/4")

Mass 1.4 kg (3.1 lb.)

Active subwoofer (SC-HT17:SB-WA17) (SC-HT16:SB-WA16) (SC-HT15:SB-WA15)

Type	1 Way 2 Speaker, Bass-ref.
------	----------------------------

Speaker unit (Woofer)

[SC-HT17] 15 cm (5-7/8") cone type, 4 Ω
[SC-HT16] [SC-HT15] 13 cm (5-1/8") cone type, 4 Ω

Output sound pressure level

[SC-HT17] 84 dB/W (1.0 m)
[SC-HT16] [SC-HT15] 80 dB/W (1.0 m)

Frequency range

[SC-HT17] 34 Hz-220 Hz (-16 dB)
38 Hz-190 Hz (-10 dB)
[SC-HT16] [SC-HT15] 40 Hz-220 Hz (-16 dB)
45 Hz-180 Hz (-10 dB)

Dimensions (W x H x D)

[SC-HT17] 285 x 402 x 520 mm (11-7/32" x 15-13/16" x 20-15/32")
[SC-HT16] [SC-HT15] 200 x 367.5 x 492 mm (7-7/8" x 14-7/16" x 19-3/8")

Mass

[SC-HT17] 15 kg (33.1 lb.)
[SC-HT16] [SC-HT15] 11.3 kg (24.9 lb.)

■ GENERAL

Power supply AC 120 V, 60 Hz

Power consumption

(Main unit)	25 W
(Subwoofer)	[SC-HT17] 390 W [SC-HT16] [SC-HT15] 340 W

Dimensions (W x H x D) (Main unit)

430 x 63 x 260 mm (16-15/16" x 2-15/32" x 10-1/4")
--

Mass (Main unit)

[SC-HT17] 1.9 kg (4.2 lb.)
[SC-HT16] [SC-HT15] 1.8 kg (4.0 lb.)

Power consumption in standby mode:	1 W
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Notes:

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

For main unit

Marking sign is located on bottom of the unit.
--

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

If the surfaces are dirty

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, carefully read the instructions that came with the cloth.

Product Service

1. Damage requiring service — The unit should be serviced by qualified service personnel if:

- (a) The AC power supply cord or the plug has been damaged; or
- (b) Objects or liquids have gotten into the unit; or
- (c) The unit has been exposed to rain; or
- (d) The unit does not operate normally or exhibits a marked change in performance; or
- (e) The unit has been dropped or the cabinet damaged.

2. Servicing — Do not attempt to service the unit beyond that described in these operating instructions. Refer all other servicing to authorized servicing personnel.

3. Replacement parts — When parts need replacing ensure the servicer uses parts specified by the manufacturer or parts that have the same characteristics as the original parts. Unauthorized substitutes may result in fire, electric shock, or other hazards.

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.

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!

Do not place anything on top of this unit or block the heat radiation vents in any way. In particular, do not place tape decks or CD/DVD players on this unit as heat radiated from it can damage your software.

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 _____
SERIAL NUMBER _____

Product information

For product information or assistance with product operation:

In the U.S.A., refer to "Customer Services Directory" on page 27.

In Canada, contact the Panasonic Canada Inc. Customer Care Centre at 905-624-5505, or visit the website (www.panasonic.ca), or an authorized Servicentre closest to you.

Warranty (U.S.A.)

Panasonic Consumer Electronics Company,
Division of Panasonic Corporation of North America
One Panasonic Way Secaucus, New Jersey 07094

Panasonic Puerto Rico, Inc.
Ave. 65 de Infantería, Km. 9.5
San Gabriel Industrial Park, Carolina, Puerto Rico 00985

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 Puerto Rico, Inc. (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
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, DVD-R/-RAM Discs (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 mail-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 Puerto Rico, inc. (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

Obtain Product Information and Operating Assistance; locate nearest Dealer or Servicenter; purchase Parts and Accessories; or make Customer Service and Literature requests by visiting our Web Site at:

<http://www.panasonic.com/consumersupport>

or, contact us via the web at:

<http://www.panasonic.com/contactinfo>

You may also contact us directly at:

1-800-211-PANA (7262),

Monday-Friday 9 am-9 pm; Saturday-Sunday 10 am-7 pm, EST.

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

Accessory Purchases

Purchase Parts, Accessories and Instruction Books online for all Panasonic Products by visiting our Web Site at:

<http://www.pasc.panasonic.com>

or, send your request by E-mail to:

npcparts@us.panasonic.com

You may also contact us directly at:

1-800-332-5368 (Phone) 1-800-237-9080 (Fax Only) (Monday - Friday 9 am to 8 pm, EST.)

Panasonic Services Company

20421 84th Avenue South, Kent, WA 98032

(We Accept Visa, MasterCard, Discover Card, American Express, and Personal Checks)

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

Service in Puerto Rico

Panasonic Puerto Rico, Inc.

Ave. 65 de Infantería, Km. 9.5, San Gabriel Industrial Park, Carolina, Puerto Rico 00985

Phone (787)750-4300, Fax (787)768-2910

Troubleshooting guide

Before requesting service, make the below checks. If you are in doubt about some of the check points, or if the remedies indicated in the chart do not solve the problem, refer to the "Customer Services Directory" on page 27 if you reside in the U.S.A, or refer to the "Product information" on page 26 if you reside in Canada.

Common problems		Pages	
No power.	▶	• Ensure the AC power supply cord and system cable are connected.	9
		• Turn the volume up.	15
		• Check connections to speakers and other equipment.	7-12
		• Select the correct source.	15
No sound.	▶	• Change the D-INPUT setting to suit the type of connection you have made.	13
		• Check that the digital signals can be decoded by this unit.	9
"F76" appears on the display, and the unit turns off. "FAN LOCK" appears on the display.	▶	• Turn PCM FIX or DTS FIX off.	20
		• Determine and correct the cause, then switch the unit on. Causes include: – Shorting (bare wires touching) of positive and negative speaker wires. – Using the subwoofer in a hot environment without proper ventilation. Consult your dealer if the problem occurs again after turning the unit on.	7 –
"F 70" appears on the display.	▶	• Turn the unit off, disconnect the AC power supply cord, and consult your dealer.	–
Sound		Pages	
Sound is not heard from the center, surround, or subwoofer speakers. Cannot use Dolby Pro LogicII or SFC.	▶	• The source may be stereo. Use Dolby Pro LogicII or SFC.	15
		• You cannot use Dolby Pro LogicII or SFC when input is PCM with sampling frequencies of 96 or 88.2 kHz.	15
Radio		Pages	
The radio cannot be tuned in or there is a lot of noise and interference. There is a lot of noise when listening to AM.	▶	• Connect the appropriate antenna. (You may need an outdoor antenna or one with more elements.)	12
		• Adjust the position of the FM or AM antenna.	12
		• Reduce the treble.	19
		• Turn off nearby televisions, video decks and DVD players.	–
		• Separate the antenna from other cables, leads, and appliances.	–
		• Press and hold [H.BASS] on the main unit so "DEFEAT" appears (the DSP is defeated). This should reduce noise. The unit cannot play multiple channel sound while the DSP is defeated, so repeat this to reengage the DSP.	19