Panasonic®





AV Control Receiver

Operating Instructions

Model No. SA-XR50

Dear customer

Thank you for purchasing this product.

Before connecting, operating or adjusting this product, please read these instructions completely.

Please keep this manual for future reference.





For U.S.A.

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

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IMPORTANT SAFETY INSTRUCTIONS

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

- 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.
- 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.



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

REFER SERVICING TO QUALIFIED

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.

- 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.

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.

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.

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:

MODEL NUMBER _

SERIAL NUMBER

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.

Supplied accessories

Please check and identify the supplied accessories.

(K2CB2CB00006)

1 AC power supply cord

1 FM indoor antenna (RSA0006-L)



1 AM loop antenna (RSA0037)





1 Remote control (EUR7722KB0)



Refer to the separate booklet, "Remote Control Operation Guide", for remote control operation details.

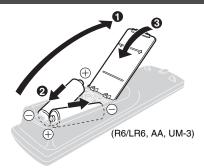
Use the numbers indicated in parentheses when asking for replacement parts.

(Only for U.S.A.)

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

The remote control

Batteries

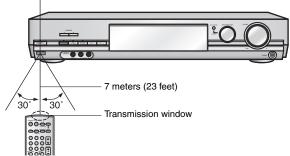


- Insert so the poles (+ and -) match those in the remote control.
- Do not use rechargeable type batteries.

Use

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

Remote control signal sensor

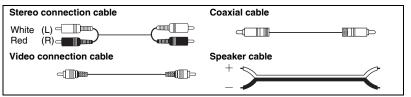


- Keep the transmission window and the unit's sensor free from dust.
- Operation can be affected by strong light sources, such as direct sunlight, and the glass doors on cabinets.

Home Theater connections

DVD player/ TV or monitor

Before connecting

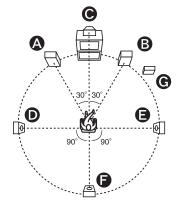


Turn off all components before making any connections.

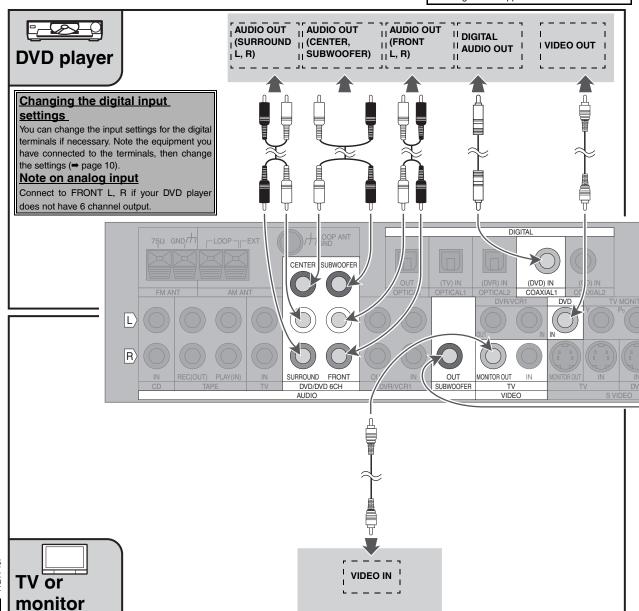
Note

- Use a digital connection to enjoy Dolby Digital or DTS and record digital sources (→ pages 12 and 20).
- Use an analog connection to enjoy sources that cannot be decoded on this unit and to record analog sources (→ pages 12 and 20).
- Enjoy higher picture quality using the S VIDEO or COMPONENT terminal (→ page 7).
- · Refer to pages 6 through 9 regarding connections to other equipment.

Placement of speakers



The front, center, and surround speakers should be placed at approximately the same distance from the seating area. The angles in the diagram are approximate.



Speakers/ AC power supply cord

Peripheral equipment and cables sold separately unless otherwise indicated. To connect equipment, refer to the appropriate operating instructions.

Front speakers (A left B 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, about one meter (3 feet) higher than ear level.

Surround back speaker ()

Place behind the seating area, about one meter (3 feet) higher than ear

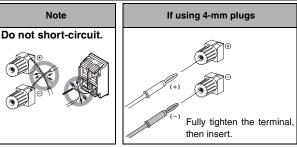
Subwoofer ()

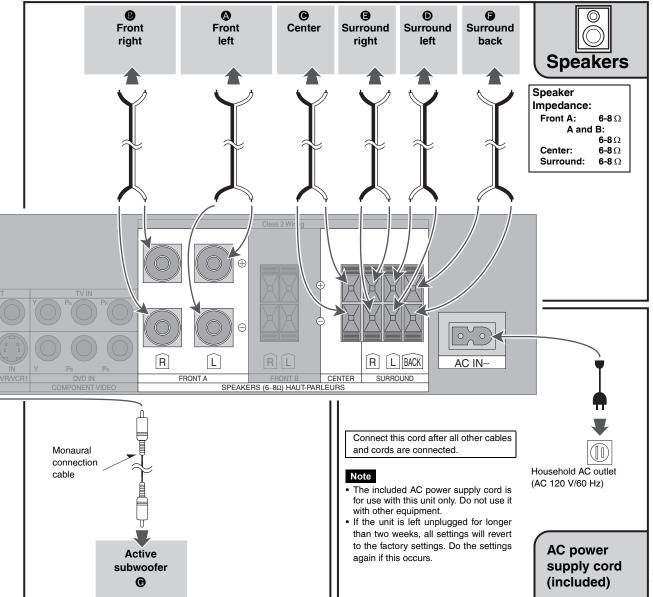
The subwoofer can be placed in any position as long as it is at a reasonable distance from the TV.

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.

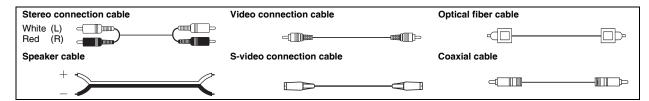
Connecting speakers

Cable	Speaker terminals			
Twist	FRONT A	Other terminals		
the wire				
+	⋑ →	→ → → → → → → → → → → → → → → → → → →		





Step 2 Other connections



Turn off all components before making any connections.

Note

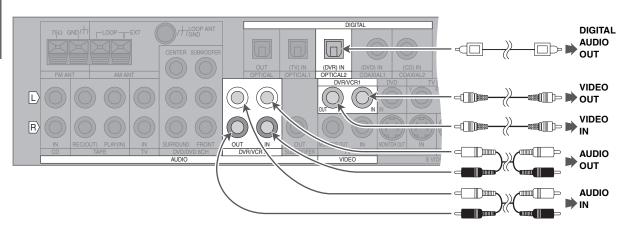
- Do not sharply bend the optical fiber cable.
- · Use a digital connection to enjoy Dolby Digital or DTS and record digital source (⇒ pages 12 and 20).
- Use an analog connection to enjoy sources that cannot be decoded on this unit and to record analog sources (⇒ pages 12 and 20).

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 10).

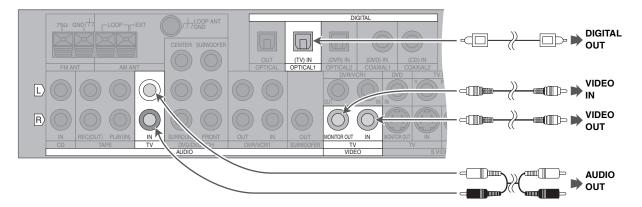


DVD recorder/VCR

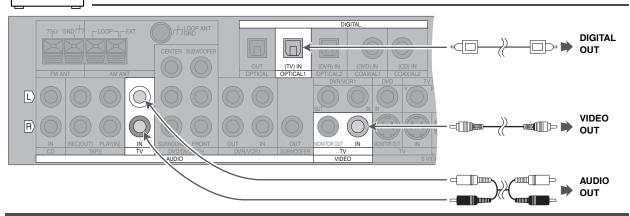




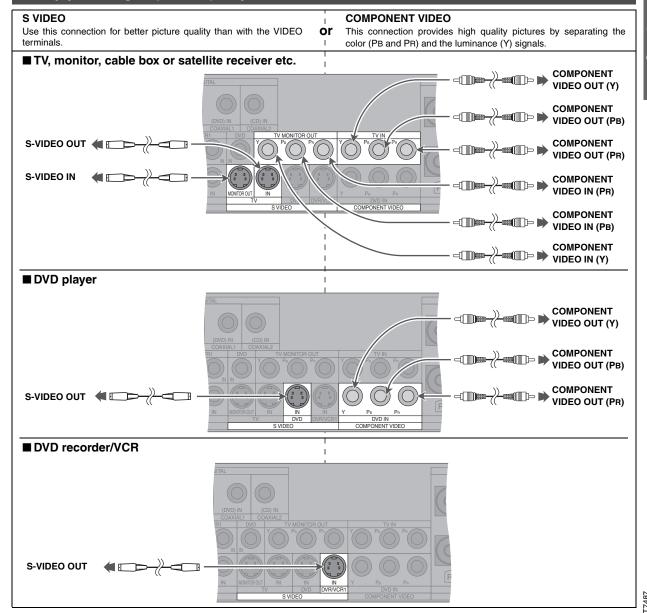
TV or monitor



Cable box or satellite receiver etc.





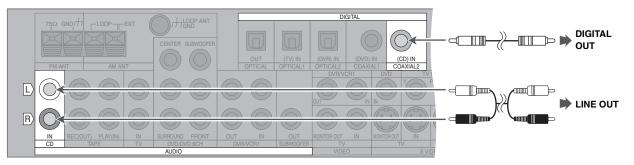


Step 2 Other connections

Turn off all components before making any connections.

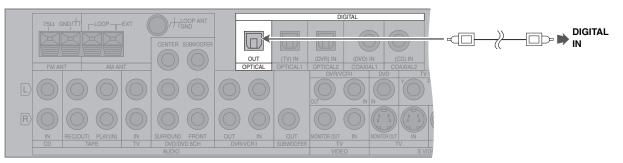


CD player

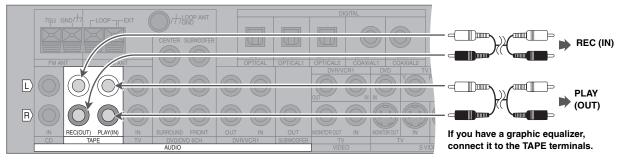




CD recorder

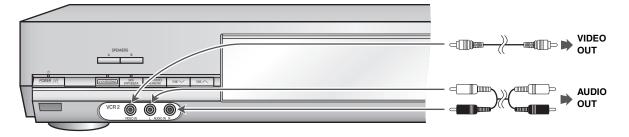


Tape deck



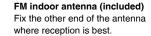


Video camera etc.



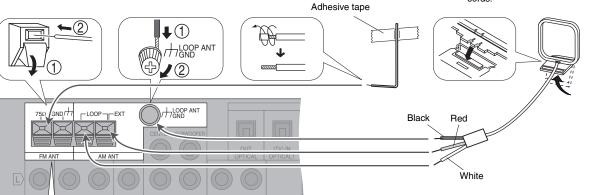


Antennas



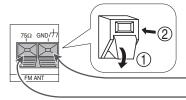
AM loop antenna (included)

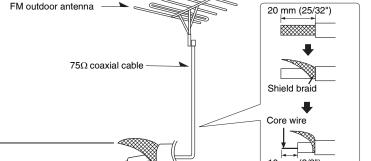
Keep the antenna cord away from tape decks, DVD players, and other cords.



FM outdoor antenna

- Disconnect the FM indoor antenna.
- The antenna should be installed by a competent technician.
- Twist the coaxial cable's shield braid firmly and connect it to the GND terminal.



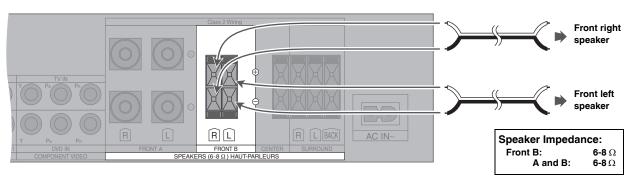




Using speaker terminal B

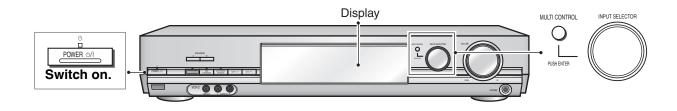
For connection to a second pair of speakers. Use the A terminals to enjoy multi-channel sound.

Cable	Speaker terminals	Note
Twist the wire	•	Do not short-circuit.



Multi control basic setup settings Multi control

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.



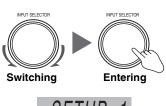


DISH FAITER

Main menu is displayed.

(Multi control mode menus and factory settings → back cover)

2 Select "SETUP 1 (BASIC SETUP)".



SETUP 1

Change the settings.



SPEAKERS

Sets the speaker combination connected to this unit.

SUBW: Subwoofer

LR: Front L/R

C: Center

S: Surround

SB: Surround Back

For the subwoofer (SUBW), select YES if you have connected one, or NO if you have not.

LCR S SB: All speakers connected

L_R S SB: No center speaker

LCR S __: No surround back speaker

L_R S __: No center and surround back speaker

LCR _ __: No surround speaker L_R _ __: Only front speaker

D-INPUT (Digital input)

Change these settings to suit the connections you have made to the optical (OPT) and coaxial (COAX) digital input terminals, so that the correct source is selected when you turn [INPUT SELECTOR].

1. Select.



SPEAKERS

1. Select.



D-INPIJT

IN MODE (Input mode)

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

AUTO: Automatically detects the input signal and plays

ANALOG: Fixes the input signal to analog and plays DIGITAL: Fixes the input signal to digital and plays PCM FIX: Fixes the input signal to PCM and plays

1. Select.



IN MODE

To finish settings

- Press [MULTI CONTROL] several times to select "EXIT".
- 2. Press [INPUT SELECTOR].

EXIT

Note regarding PCM FIX mode

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

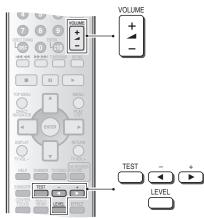
With the PCM signals on CDs, this may cause the beginning of a track to be cut off. Engage the PCM FIX mode if this occurs.

When PCM FIX mode is on, the unit cannot process other signals. This may cause noise to be output. Select another mode in this case.

The PCM FIX mode remains as set even if the power is turned off.

Adjusting speaker output level

Adjust the level of the other speakers based on the output of the front speakers. (Output is only from the speakers selected in the SPEAKERS settings. Adjust the volume of the front speakers with [VOLUME].)



C (center), RS (right surround), SB (surround back) and LS (left surround) can be adjusted between -10 dB and +10 dB, with 0 being the level of the front speakers.

Adjust center, surround and surround back output to the same apparent level of the front speakers.

For SW (subwoofer), "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 18)

Preparation: Press [SPEAKERS A] to turn on SPEAKERS A. (On the main unit)

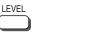


Adjust the main volume.



--dB (minimum) --- 0 dB (maximum)

Select the speaker channel.



C. RS, SB, LS, SW

Adjust the level.



Repeat



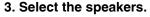
Stop the test signal.



2. Select.





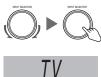




LCR'S SB, L_R S SB, LCR S __, L_R S __, LCR _ __, L_R___

3. Change the setting.

2. Select the input position.



TV, DVR, DVD, CD



OPT 1, OPT 2, COAX 1, COAX 2

3. Change the setting.

2. Select the input position.







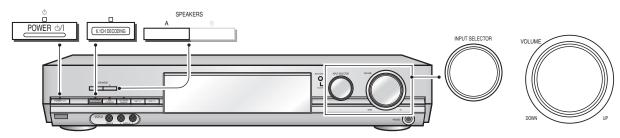


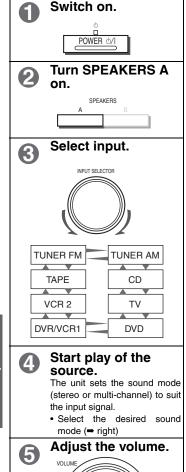
AUTO, ANALOG, DIGITAL, PCM FIX

For more detailed information on settings refer to "Advanced setup" on page 21.

Step 4

Basic operations





When you finish listening

Be sure to reduce the volume and press [POWER ϕ/I] to switch the unit to standby.

Notes on digital input

This unit can decode the following signals:

- Dolby Digital, including Dolby Digital Surround EX
- DTS, including DTS-ES or DTS 96/24
- PCM, including PCM with sampling frequencies of 192, 176.4 (COAXIAL1), 96 or 88.2 kHz

It cannot decode:

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

Sound modes

Adding surround effects

Using Dolby Pro Logic II

Dolby Pro Logic ${\rm I\!I}$ processor works not only on sources recorded with Dolby Surround, but also on any stereo source.

The following modes are available when using Dolby Pro Logic ${
m I\hspace{-.1em}I}$.



· To cancel: Press [STEREO/2CH MIX, OFF].

Using DTS NEO:6

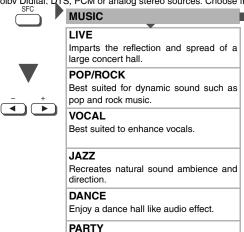
Use DTS NEO:6 to play 2-channel sources through multi-channels. The following modes are available when playing 2-channel sources.



- To cancel: Press [STEREO/2CH MIX, OFF].
- When the "DTS" or "DI DIGITAL" indicator is lit, only the CINEMA mode can be selected.

Using the Sound Field Control (SFC)

Enjoy an enhanced sound experience with greater presence and spread by using these SFC modes with Dolbv Digital, QTS, PCM or analog stereo sources. Choose from the following modes.



This mode uses the front and surround speakers so that sound is in stereo

regardless of the direction you are

■ AV/MOVIE

DRAMABest suited for dialogues in drama movies.

ACTION

Best suited for action movies with impact.

SPORTS

Enjoy a feeling like being at a live sporting event.

MUSICAL

Enjoy a feeling like being at a live musical performance.

GAME

Enjoy games with greater audio impact.

IONO

Best suited for older monaural audio movies.

facing.

• To cancel: Press [STEREO/2CH MIX, OFF].

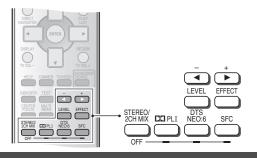
6.1CH DECODING mode

This mode uses the surround back speaker to create a realistic sound field. It is especially effective when playing DTS-ES and Dolby Digital Surround EX, but can be used with other DTS and Dolby Digital sources, as well as Dolby Pro Logic II, DTS NEO:6 and SFC. This mode engages automatically if the disc has a recognition signal for DTS-ES or Dolby Digital Surround EX (you can still turn the mode off).



• To cancel

Press [6.1CH DECODING].



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

Center Width Control - C-WDTH

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.



You can adjust the effect of MUSIC with the center image control.

Center Image Control - C-IMG

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.

Dimension Control - DIMEN

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.



You can choose a level between 0 (the center speaker is dominant) and 5 (center sound is spread out).

The default level is 3.



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

To adjust the speaker level



When 6.1CH DECODING is on: $C \rightarrow RS \rightarrow SB \rightarrow LS \rightarrow SW$

• Output is only from the speakers selected in the SPEAKERS settings.

To adjust SFC effect



SFC effect can be adjusted between EFFECT 1 (minimum) and EFFECT 10 (maximum).

The factory setting is EFFECT 5 for each mode.

Listening to multi-channel source in stereo (2CH MIX mode)

← 1 – 19 ← MAX

When multi-channel sources are played in this mode, the sounds intended for the other speaker channels are played through the front speakers.

• To cancel



Press [STEREO/2CH MIX, OFF].

Notes on sound modes

Dolby Pro Logic ${\rm I\hspace{-.1em}I}$, DTS NEO:6 and SFC modes remain in effect until you change them.

To cancel

Press [STEREO/2CH MIX, OFF].

The 2CH MIX mode remains in effect until you change input mode or turn off the unit.

 To return to surround sound Press [STEREO/2CH MIX, OFF]. When input is PCM with sampling frequencies of 192, 176.4 (COAXIAL1), 96, or 88.2 kHz:

 You cannot add surround effects with Dolby Pro Logic II, DTS NEO:6 or SFC.

When neither the center or surround speakers are selected in the SPEAKERS settings:

You cannot use Dolby Pro Logic II, DTS NEO:6, or SFC.

When the surround back speaker is not selected in the SPEAKERS settings:

· You cannot use 6.1CH DECODING mode.

If the unit does not automatically recognize Dolby Digital Surround EX or DTS-ES and output is 5.1 channels:

Press [6.1CH DECODING] to switch the mode on manually. Sound will now come from the surround back speaker.

Main unit

Standby indicator [0]

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

[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.

[SPEAKERS, A, B]

For selecting speakers A or B.

Turning the speakers off automatically engages the STEREO/2CH mode

(when listening through headphones, for example).

[DI] DIGITAL EX, DI] DIGITAL, DI] PL II, DTS 96/24, DTS-ES, DTS, DTS NEO:6]

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

DI DIGITAL EX: Dolby Digital Surround EX sources

D☐ DIGITAL: Dolby Digital sources
D☐ PLⅡ: Dolby Pro Logic Ⅱ decoder is being used

DTS 96/24: DTS 96/24 sources

DTS-ES: DTS-ES discrete or matrix sources

DTS: DTS sources

DTS NEO:6: DTS NEO:6 matrix decoder is being

[MULTI CONTROL]

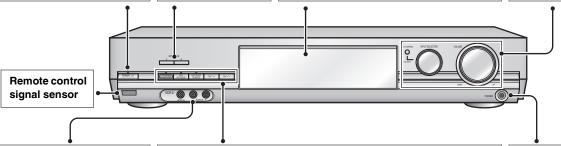
Press to enter Multi control mode, and use [INPUT SELECTOR] to select/

[INPUT SELECTOR]

For selecting input.
Selects/Enters each setting in Multi control mode.

[VOLUME]

Volume control.



[VCR 2]

For a video camera, etc.

[6.1CH DECODING]

For turning on the 6.1 channel decoding mode. When using this mode the indicator lights.

[BASS SYNTHESIZER]

For turning on the bass synthesizer mode. When using this mode the indicator lights.

[MULTI-SOURCE RE-MASTER]

For selecting a re-master mode. When using this mode the indicator lights.

[TUNE \vee , \wedge]

For tuning the radio and selecting preset stations.

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

[PHONES]

Headphone jack Plug type: 6.3 mm (1/4") stereo

- Avoid listening for prolonged periods of time to prevent hearing damage.
- Turn the speakers off when using the headphones.

Display

• When you turn the dimmer to "ON", the following indicators change to dim.

[- SPEAKERS- A , B]

Speaker indicators

- A:Sound is output from speakers connected to the front A, surround, and center terminals.
- B: Sound is output only from speakers connected to the front B terminals.
- A B :Sound is output from speakers connected to the front A and B terminals.

[TUNED, ST, M , MONO]

Radio indicators

- TUNED: A station is tuned.
 ST: A stereo FM broadcast is tuned
- M: Flashes during automatic presetting.

MONO: Lights when using the monaural mode.

[SLEEP]

Sleep timer indicator.

[SFC, CENTER FOCUS, 2CH MIX, MULTI REAR]

SFC: Lights when using an SFC mode.
CENTER FOCUS: Lights when using the center focus mode.

2CH MIX: Lights when playing a multichannel source in 2CH MIX mode

MULTI REAR: Lights when using the multi rear surround mode.

[<<<MULTI CONTROL>>>]

When you press the [MULTI CONTROL] button and enter the settings the indicator lights.

[-DIGITAL INPUT-, L, C, R, S, LS, SB, RS, LFE]

Program format indicators

Show the channels contained in the digital input signal. They do not light when input is analog.

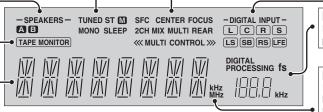
- L: Front left channel
- C: Center channel
- R: Front right channel
- S: If the surround channel is monaural.
- LS: Surround left channel
- SB: Surround back channel
- RS: Surround right channel
- LFE (Low Frequency Effects): Deep-bass effect.

[TAPE MONITOR]

Lights when the tape monitor is on.

General display

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



[DIGITAL PROCESSING fs]

Displays the frequency the unit is processing.

[kHz, MHz]

Frequency unit indicators

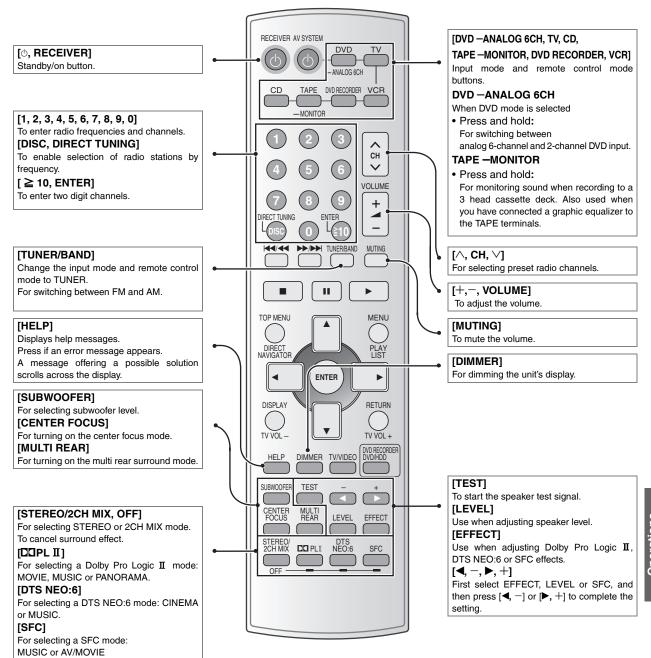
kHz: AM, or PCM sampling frequency

MHz: FM

Remote control

Buttons not explained on this page are used only to operate other equipment.

Refer to the separate booklet, "Remote Control Operation Guide", for remote control operation details.



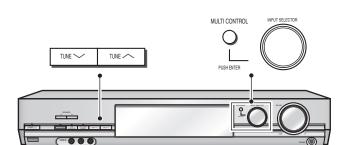
For your reference

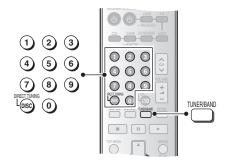
- When playing video sources connected to DVR/VCR1
 The picture remains on the screen even if you select TAPE, CD or TUNER.
- When SPEAKERS B is on The STEREO/2CH MIX mode is engaged automatically.
- · When DVD ANALOG 6CH input is on
- Speaker settings are ineffective. Change the settings on the DVD player if necessary.
- When using a graphic equalizer

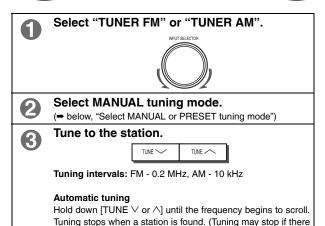
Some distortion may occur, depending on the equalizer's settings.

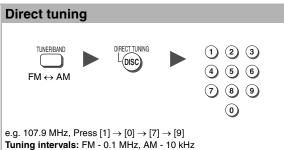
- When input is DIGITAL
- The tape monitor cannot be used.
- When muting is on

Muting is also canceled when the unit is turned off.









- 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.

Multi control tuner settings MULTI CONTROL



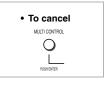
is interference.)

L PUSH BITTER

Main menu is displayed.

(Multi control mode menus and factory settings → back cover)

Change the settings.



Select MANUAL or PRESET tuning mode

MANUAL: To tune the station frequency.

PRESET: To select the preset channel.

1. Select.

2. Select.

3. Select.

MATERIAL DE SERVICE DE

TUNER TUN



MANUAL PRE

FM mode

You can improve FM reception by switching reception to monaural.

SOUL RECORD

1. Select "TUNER".



2. Select "FM MODE".



3. Select "MONO".

· To cancel, select "AUTO".

Beat proof mode

When there is a lot of noise interference with the AM broadcast, try switching to this mode.

This may change the volume, but noise will also reduce.

1. Select "OPTION". 2. Select "B PROOF". 3. Select "MODE A"





To finish settings

- Press [MULTI CONTROL] several times to select "FXIT"
- 2. Press [INPUT SELECTOR].

For your reference

Improving reception

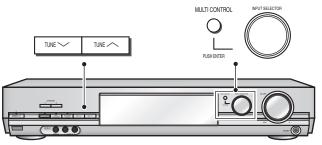
DVD players can interfere with radio reception. Turn the DVD player off or move it further away from the antennas if this occurs.

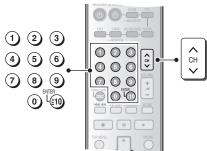
· Beat proof mode

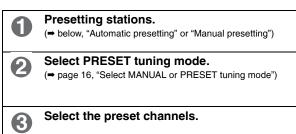
Changing these settings also changes the A/D attenuator settings, which are linked. (→ page 19)

Operations

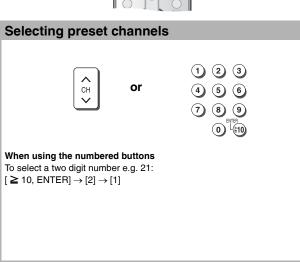
Preset tuning







Hold down the button to change channels faster.



Multi control tuner settings MULTI CONTROL

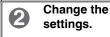


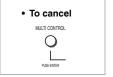
MULTI CONTROL

L
PUSH ENTER

Main menu is displayed.

(Multi control mode menus and factory settings → back cover)





Automatic presetting

Preparation:

TUNE /

First, set the channel reception to FM 87.9 MHz or AM 530 kHz. Preset channels that are automatically assigned by this unit are:

FM: 1 to 30, AM: 21 to 30 (FM stations are replaced if any were preset in these channels.)

1. Select.



2. Select.



3. Select.



UNER AUTO M

START → CANCEL
• To cancel, select "CANCEL".

- 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.

Manual presetting

Preparation:

Set the station signal you want set as a preset.

Preset the stations one at a time.

 FM stations can also be preset in the MONO mode. 1. Select. 2. Select.







TUNER

MEMORY

CH₁

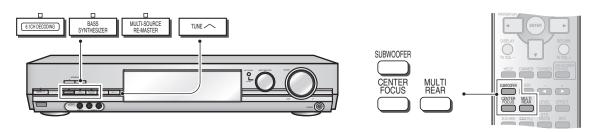
 In the state, press [TUNE ∨ or ∧] to tune the station (Exit the Multi control mode). CH 1 CH 30
• "STORED" is displayed.

To finish settings

- Press [MULTI CONTROL] several times to select "EXIT".
- 2. Press [INPUT SELECTOR].

For your reference

Even if the power supply cord is disconnected from the house hold AC outlet, the stations remain in memory for approximately two weeks.



Bass synthesizer To cancel Provides depth of bass for audio play with impact. Press [BASS SYNTHESIZER]. · When input signal is Dolby digital stereo or DTS stereo, this mode cannot be used. Multi-source re-master This original feature boosts the frequencies of the higher harmonics that are lost during recording due to compression. When Re-master is on, the current level appears. EFFECT 1: For fast tracks (pop and rock) EFFECT 1, EFFECT 2, EFFECT 3, EFFECT 2: For tracks with a variety of tempos (jazz) EFFECT 4. OFF EFFECT 3: For slow tracks (classical) EFFECT 4: For compressed audio signals OFF: The re-master processing is off.

Center focus

selected.

Subwoofer level

Select SW --- to stop output. The factory setting is SW 10.

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

You can adjust the volume of the subwoofer while listening to a source.

· You cannot adjust the subwoofer level if DVD ANALOG 6CH is

· Sound can be distorted if you raise the volume while the subwoofer

The center focus cannot be used in the following cases:

level is high. Reduce the subwoofer level if this occurs.

- · When there is no center input signal.
- · When the center speaker is not selected in the SPEAKERS settings.

FOCUS

SUBWOOFER



--, MIN, 5, 10, 15, MAX

To cancel
Press [CENTER FOCUS].

Multi rear surround

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

The multi rear surround cannot be used in the following cases:

- When there is no surround input signal.
- When the surround channel is monaural.
- When the surround speaker is not selected in the SPEAKERS settings.





 To cancel Press [MULTI REAR].

DTS FIX mode

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

With DTS, the signals may not be recognized at all. Engage the DTS FIX mode if this occurs.

When DTS FIX mode is on, the unit cannot process other signals. This may cause noise to be output. Turn the setting off in this case.

• When you turn the unit power off the DTS FIX mode is canceled.

While the input source is selected





Press and hold at the same time for 2 seconds.

 To cancel, perform the same operation again.

"AUTO" is displayed.

For your reference

The bass synthesizer, center focus or multi rear surround cannot be used in the following cases.

- When input signal is monaural, DTS 96/24, PCM with sampling frequencies of 192, 176.4, 96 or 88.2 kHz.
- When Dolby Pro Logic II , DTS NEO:6, SFC or multi-source re-master is on.

The center focus or multi rear surround cannot be used in the following case.

- · When input signal is PCM or analog stereo.
- When DVD ANALOG 6CH is selected.

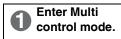
When DTS FIX mode is on

You cannot use 6.1CH DECODING mode.

DTS-ES and DTS 96/24 are played as normal DTS (i.e., there is no output from the surround back speaker).



Multi control audio settings MULTI CONTROL

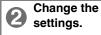


MULTI CONTROL

Main menu is displayed.

(Multi control mode menus and factory settings

⇒ back cover)





To finish settings

- 1. Press [MULTI CONTROL] several times to select
- 2. Press [INPUT SELECTOR].

Tone

You can adjust the level of the bass and treble.

• The STEREO mode must be on and input must be either analog or PCM signals. You cannot adjust the tone if DVD ANALOG 6CH is selected.

1. Select.



2. Select.



3. Adjust the level.



BASS

→ TREBLE

-10 dB ⁻⁻

Balance

You can adjust the balance of the front speakers.

1. Select.



2. Adjust the balance.





Dual program

When the input signal is Dolby Digital and "DUAL" appears in the display, the audio to be output is set.

MAIN:Main audio output SAP:Sub channel audio output MAIN+SAP:Main and sub channel audio output

1. Select.



2. Select.



3. Select.



DUAL PRG

MAIN, SAP, MAIN+SAP

Dynamic range compression

Change this setting to listen to software recorded with Dolby Digital at low volume (such as late 1. Select. at night) maintaining audio clarity. It reduces the peak level in loud scenes without affecting the sound field

OFF:

The software is played with the original dynamic range.

STANDARD:

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

MAX:

The maximum allowable compression (recommended for night viewing).





2. Select.



3. Select.



OFF, STANDARD, MAX

A/D attenuator

Turn the A/D attenuator on if "OVERFLOW" lights frequently when using 2-channel analog input or DVD ANALOG 6CH input.

1. Select.



2. Select.



3. Select.



OFF ↔ ON



Other Multi control function settings MULTI CONTROL





Main menu is displayed.

(Multi control mode menus and factory settings

⇒ back cover)



 To cancel MULTI CONTROL

To finish settings

- 1. Press [MULTI CONTROL] several times to select
- 2. Press [INPUT SELECTOR].

Dimmer

Dim the display for better viewing in a darkened room.

Choose a level between 1 (bright) and 3 (dim).

1. Select.





2. Select.





· To cancel, select "OFF"

3. Select.



LEVEL 1, LEVEL 2,

· The brightness changes to show the level.

Sleep timer

The sleep timer can turn the unit off after a set time.

It does not control any other components.

1. Select.



2. Select.



OFF. 30, 60. 90, 120 (in minutes)

· To cancel, select "OFF"

· To check the setting

After setting the time, you can check the remaining time using step 2.

· To change a setting Repeat the procedure from the beginning.

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. Select.



2. Select.



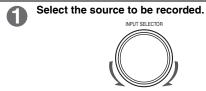
3. Select.



· To cancel, select "NO".

Making a recording





Begin recording.

Follow your recording unit's operating instructions.

Start the source to be recorded.

Follow your equipment's operating instructions.

You can record to a tape deck connected to TAPE REC (OUT), a DVD recorder/VCR connected to DVR/VCR OUT, or digital recording equipment connected to DIGITAL OPTICAL OUT.

See the recording unit's operating instructions for details on how to prepare it for recording.

Note

- With a tape deck, you can record any analog source except TAPE.
- With a DVD recorder/VCR, you can record any analog source except TAPE and DVR/VCR1.
- With digital recording equipment, you can record any digital source without copy protection.
- When you select DVD ANALOG 6CH mode, only sound from the front left and right channels is recorded.
- · Some sources do not allow digital recording. Connect through the analog terminals and select "ANALOG" input.

Advanced setup

You can adjust the settings to match the setup environment and performance of the connected speakers.



Multi control advanced setup settings MULTI CONTROL



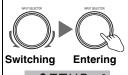
MULTI CONTROL



Main menu is displayed.

(Multi control mode menus and factory settings ⇒ back cover)









To finish settings

- 1. Press [MULTI CONTROL] several times to select "EXIT".
- 2. Press [INPUT SELECTOR].

SPEAKERS

Set the size to suit your speakers.

LARGE:

For speakers that can reproduce a full sound range, particularly the bass range below 100 Hz.

SMALL:

For speakers that cannot adequately 1. Select. reproduce the bass range. This setting is sufficient for most speakers if you are using a subwoofer.

NONE:

For speakers you haven't connected (center or surround).

For the surround back (SUR BACK) and subwoofer (SUB-WFR), select YES if you have connected one, or NO if you have not.

2. Select the speaker.

3. Change the setting.



SPEAKERS



FRONT, CENTER, SURROUND, SUR BACK, SUB-WFR NONE, SMALL, LARGE NO, YES

DISTANCE

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

Change the distance so that the sound from all the speakers (except for the subwoofer) reaches you at the same time. You can select distances between 3 and 30 feet at one-foot intervals.

1. Select.

2. Select the speaker.

3. Change the setting.





3 FEET 30 FEET

FRONT, CENTER, SURROUND. SUR BACK

FILTER

Change the cut-off for bass output from the front speakers.

If you set the front speakers to "SMALL", the filter is set to 100 Hz. Raise the cut-off if the bass from the front speakers is unsatisfactory so that this bass is output through the subwoofer.

You can raise the cut-off from 100 Hz to either 150 Hz or 200 Hz.

1. Select.

2. Change the setting.



100, 150, 200

Specifications (IHF'78)

■ AMPLIFIER SECTION			S/N	
Rated minimum sine wave RMS power of	output		MONO	
20 Hz-20 kHz both channels driven			STEREO	
0.09 % total harmonic distortion	100 W per ch	nannel (6 Ω)	Frequency response	
1 kHz continuous power output both cha	annels driven		Alternate channel sel	ectivity
0.09 % total harmonic distortion	105 W per ch	nannel (6 Ω)	Capture ratio	
Total harmonic distortion			Image rejection at 98	
rated power at 20 Hz-20 kHz	C	.09 % (6 Ω)	Spurious response re	ejection at 98 MHz
Power bandwidth			AM suppression	
both channels driven, -3 dB	4 Hz-88 kHz	(6 Ω, 0.9 %)	Stereo separation	
Power output each channel driven			1 kHz	
0.9 % total harmonic distortion at 1kH	lz		10 kHz	
Front (L/R)		100 W (6 Ω)	Antenna terminal	
Center		100 W (6 Ω)	■ AM TUNER SEC	TION
Surround (L/R/BACK)		100 W (6 Ω)	Frequency range	
Load impedance			Sensitivity	
Front (L/R)			Selectivity	
A or B		6-8 Ω	IF rejection at 1000 kl	47
A and B		$6-8\Omega$	•	
Center		$6-8\Omega$	■ VIDEO SECTION	
Surround (L/R/BACK)		$6-8\Omega$	Output voltage at 1 V	input (unbalanced)
Frequency response			Maximum input voltag	ge
CD, TV, DVD/DVD 6CH, DVR/VCR1, VCR2	, TAPE 4 Hz-88	kHz, ±3 dB	Input/output impedan	ce
Input sensitivity			S-Video	Input
CD, TV, DVD/DVD 6CH, DVR/VCR1, VCR2, T	APE 27 mV (200 r	nV, IHF '66)		Output
Input impedance			Component Video	Input
CD, TV, DVD/DVD 6CH, DVR/VCR1, V	CR2, TAPE	22 kΩ		Output
S/N (IHF A)			■ GENERAL	
TV, DVD, DVR/VCR1 (Digital Input)	85 dB (103	dB, IHF '66)	Power supply	
Tone controls			Power supply Power consumption	

50 Hz, +10 to -10 dB

7 Hz-200 Hz

20 kHz, +10 to -10 dB

Digital input	(OPTICAL)	2
	(COAXIAL)	2
Digital output	(OPTICAL)	1

■ FM TUNER SECTION

Subwoofer frequency response (-6 dB)

BASS

TREBLE

Frequency range 87.9-107.9 MHz 11.2 dBf (2 μ V, IHF '58) Sensitivity 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%

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.

Product information

For product information or assistance with product operation:

In the U.S.A., contact the Panasonic Customer Call Center at 1-800-211-7262, or the website http://www.panasonic.com/contactinfo, or the website (http://www.panasonic.com/support).

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

Frequency response Alternate channel select	ivity	20 Hz-15 kHz, +1 dB, -2 dB 65 dB
Capture ratio	ivity	1.5 dB
Image rejection at 98 MH	Iz	40 dB
Spurious response reject		75 dB
AM suppression		50 dB
Stereo separation		
1 kHz		40 dB
10 kHz		30 dB
Antenna terminal		75 Ω (unbalanced)
■ AM TUNER SECTIO	N	
Frequency range		530-1710 kHz
Sensitivity		$20 \mu V$, $330 \mu V/m$
Selectivity		55 dB
IF rejection at 1000 kHz		50 dB
■ VIDEO SECTION		
Output voltage at 1 V inp	out (unbalanced)	1±0.1 Vp-p
Maximum input voltage	·	1.5 Vp-p
Input/output impedance		75Ω
S-Video	Input	TV, DVD, DVR/VCR1
	Output	TVMONITOR
Component Video	Input	TV, DVD
	Output	TVMONITOR
■ GENERAL		
Power supply		AC 120 V, 60 Hz
Power consumption		135 W
Dimensions (W x H x D)		430 x 83 x 376 mm
	(16-	-15/16" x 3-9/32" x 14-13/16")
Mass		4.2 kg (9.3 lb.)

73 dB 67 dB

■ DIN POWER

1 kHz, T. H. D 1 % 2 x 100 W (6 Ω)

Power consumption in standby mode: 1 W

Notes:

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

Marking sign is located on bottom of the unit.

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.

Manufactured under license from Dolby Laboratories.

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

"DTS", "DTS-ES", "Neo:6" and "DTS 96/24" are trademarks of Digital Theater Systems, Inc.

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

Panasonic Sales Company, Division of Matsushita Electric of Puerto Rico, Inc.,

Ave. 65 de Infantería, Km. 9.5

San Gabriel Industrial Park, Carolina, Puerto Rico 00985

Panasonic/Technics Audio Products Limited Warranty

Limited Warranty Coverage

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

Product or Part Name	Parts	Labor
Audio Products (except items listed below)	One (1) year	One (1) year
All Audio Racks (cabinets)	Thirty (30) days	Not Applicable
Technics Stand Alone Speakers, Subwoofer Speakers	Three (3) years	Three (3) years
USB Reader-Writer, Personal Computer Card Adapters (in exchange for defective item)	One (1) year	Not Applicable
Accessories: Headphones, Cartridges, Microphones, Adapters	Ninety (90) days	Ninety (90) days
Rechargeable Batteries, 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 Sales Company (787)-750-4300 or fax (787)-768-2910.

Limited Warranty Limits And Exclusions

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

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

Some states do not allow the exclusion or limitation of incidental or consequential damages, or limitations on how long an implied warranty lasts, so the exclusions may not apply to you.

This warranty gives you specific legal rights and you may also have other rights which vary from state to state. If a problem with this product develops during or after the warranty period, you may contact your dealer or Servicenter. If the problem is not handled to your satisfaction, then write to the warrantor's Consumer Affairs Department at the addresses listed for the warrantor.

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

Customer Services Directory (U.S.A.)

Customer Services Directory

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:

http://www.panasonic.com/support

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@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

Matsushita Electric of Puerto Rico, Inc. Panasonic Sales Company

Factory Servicenter:

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:

In the U.S.A., contact the Panasonic Customer Call Center at 1-800-211-7262, or the website (http://www.panasonic.com/contactinfo), or the website (http://www.panasonic.com/support).

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.

■ Common problems

Pages

No power.	Ensure the power cord is connected.	5
No sound.	Turn the volume up. Check connections to speakers and other equipment. Turn on the speakers Turn off the tape monitor. Select the correct source. Change the D-INPUT setting to suit the type of connection you have made. Check that the digital signals can be decoded by this unit.	12 4-9 12 15 12 10
Sound stops. "F 76" or "OVERLOAD" appears on the display for about a second, and the unit turns off.	Turn PCM FIX or DTS FIX off. Determine and correct the cause, then turn 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. Consult your dealer if the problem occurs again after switching the unit on.	5, 9 5, 9 - -
"F 70" appears on the display.	Turn the unit off, disconnect the AC power supply cord, and consult your dealer.	_

■ Sound modes Pages

		_
Sound is not heard from the center, surround, or subwoofer speakers.	 Ensure the SPEAKERS settings for your speakers are correct. Turn 2CH MIX off. The source may be stereo. Change the sound mode. 	10, 21 13 12
Sound is not heard from the surround back speaker.	 Ensure the SPEAKERS settings for your speakers are correct. Turn 6.1CH DECODING mode on. 	10, 21 12
Cannot use Dolby Pro Logic II, DTS NEO:6 or SFC.	Turn DVD ANALOG 6CH off. You cannot use Dolby Pro Logic II, DTS NEO:6 or SFC when input is PCM with sampling frequencies of 192, 176.4 (COAXIAL1), 96, or 88.2 kHz.	15 13
There is no DTS audio output. There is Audio output, but the DTS decoder indicator is not lit.	Check the DVD player's digital output settings.	-

■ Radio Pages

The radio cannot be tuned in or there is a lot of noise and interference.

Connect the appropriate antenna. (You may need an outdoor antenna or one with more elements.)
 Adjust the position of the FM or AM antenna.
 Reduce the treble.
 Turn off nearby televisions, video decks, DVD players, and satellite receivers.
 Separate the antenna from other cables, cords, and appliances.

■ Multi control mode menus and factory settings (Reference pages are shown as black circled numbers ⑩)

Main menu	Sub menu	(factory sett	ings)	
TUNER	TUNING	MANUAL	(1)	
(TUNER	FM MODE	AUTO	•	
mode	MEMORY	CH 1	Ð	
only)	AUTO MEM	START	w	
TONE	BASS	-OdB		
TONE	TREBLE	OUD	®	
BALANCE	LŸR			
	L Y R OFF			
BALANCE DIMMER		LEVEL 2	@	
	OFF	LEVEL 2	3	
DIMMER	OFF ON	LEVEL 2	a	
DIMMER	OFF ON OFF		8	

Main menu	Sub menu (factory settings)			
OPTION	B PROOF	MODE A		(
Or HON	RESET	YES		20
	SPEAKERS	SUBW YES	LCR S SB	
	SFLANLIS	SUBW NO	LON 3 3B	
	D-INPUT	TV	OPT 1	
		DVR	OPT 2	
SETUP 1		DVD	COAX 1	0
321011		CD	COAX 2	w
		TV		
	IN MODE	DVR	AUTO	
	IIV WODE	DVD		
		CD		

Main menu	Sub menu (factory settings)			
SETUP 2	SPEAKERS	FRONT	SMALL	8
		CENTER		
		SURROUND		
		SUR BACK	YES	
		SUB-WFR		
	DISTANCE	FRONT	10 FEET	
		CENTER		
		SURROUND	5 FEET	
		SUR BACK		
	FILTER	100		
EXIT	⇒Exit the Multi control mode			

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