





Dear customer

Thank you for purchasing this product.

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

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Please keep this manual for future reference.

Note:

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"EB" on the packaging indicates the United Kingdom.



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Caution for AC Mains Lead

(For United Kingdom) ("EB" area code model only)

For your safety, please read the following text carefully.

This appliance is supplied with a moulded three pin mains plug for your safety and convenience.

A 5-ampere fuse is fitted in this plug.

Should the fuse need to be replaced please ensure that the replacement fuse has a rating of 5-ampere and that it is approved by ASTA or BSI to BS1362.

Check for the ASTA mark \circledast or the BSI mark \heartsuit on the body of the fuse.

If the plug contains a removable fuse cover you must ensure that it is refitted when the fuse is replaced.

If you lose the fuse cover the plug must not be used until a replacement cover is obtained.

A replacement fuse cover can be purchased from your local dealer.

CAUTION!

IF THE FITTED MOULDED PLUG IS UNSUITABLE FOR THE SOCKET OUTLET IN YOUR HOME THEN THE FUSE SHOULD BE REMOVED AND THE PLUG CUT OFF AND DISPOSED OF SAFELY. THERE IS A DANGER OF SEVERE ELECTRICAL

SHOCK IF THE CUT OFF PLUG IS INSERTED INTO ANY 13-AMPERE SOCKET.

If a new plug is to be fitted please observe the wiring code as stated below.

If in any doubt please consult a qualified electrician.

IMPORTANT

The wires in this mains lead are coloured in accordance with the following code: $\label{eq:coloured}$

Blue: Neutral, Brown: Live.

As these colours may not correspond with the coloured markings identifying the terminals in your plug, proceed as follows:

The wire which is coloured Blue must be connected to the terminal which is marked with the letter N or coloured Black or Blue.

The wire which is coloured Brown must be connected to the terminal which is marked with the letter L or coloured Brown or Red.

WARNING: DO NOT CONNECT EITHER WIRE TO THE EARTH TERMINAL WHICH IS MARKED WITH THE LETTER E, BY THE EARTH SYMBOL $\stackrel{\perp}{\rightarrow}$ OR COLOURED GREEN OR GREEN/YELLOW.

THIS PLUG IS NOT WATERPROOF-KEEP DRY.

Before use

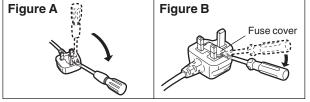
Remove the connector cover.

How to replace the fuse

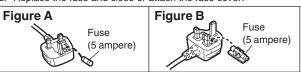
The location of the fuse differ according to the type of AC mains plug (figures A and B). Confirm the AC mains plug fitted and follow the instructions below.

Illustrations may differ from actual AC mains plug.

1. Open the fuse cover with a screwdriver.



^{2.} Replace the fuse and close or attach the fuse cover.



Safety precautions

Placement

Set the unit up on an even surface away from direct sunlight, high temperatures, high humidity, and excessive vibration. These conditions can damage the cabinet and other components, thereby shortening the unit's service life.

Do not place heavy items on the unit.

Voltage

Do not use high voltage power sources. This can overload the unit and cause a fire.

Do not use a DC power source. Check the source carefully when setting the unit up on a ship or other place where DC is used.

AC mains lead protection

Ensure the AC mains lead is connected correctly and not damaged. Poor connection and lead damage can cause fire or electric shock. Do not pull, bend, or place heavy items on the lead.

Grasp the plug firmly when unplugging the lead. Pulling the AC mains lead can cause electric shock.

Do not handle the plug with wet hands. This can cause electric shock.

Foreign matter

Do not let metal objects fall inside the unit. This can cause electric shock or malfunction.

Do not let liquids get into the unit. This can cause electric shock or malfunction. If this occurs, immediately disconnect the unit from the power supply and contact your dealer.

Do not spray insecticides onto or into the unit. They contain flammable gases which can ignite if sprayed into the unit.

Service

Do not attempt to repair this unit by yourself. If sound is interrupted, indicators fail to light, smoke appears, or any other problem that is not covered in these operating instructions occurs, disconnect the AC mains lead and contact your dealer or an authorized service center. Electric shock or damage to the unit can occur if the unit is repaired, disassembled or reconstructed by unqualified persons.

Extend operating life by disconnecting the unit from the power source if it is not to be used for a long time.

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.

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

NORSK

Utstyret bør plasseres i nærheten av AC-stikkontakten, og støpslet må være lett tilgjengelig hvis det skulle oppstå problemer.

SUOMI

Laite tulee asettaa lähelle verkkopistorasiaa ja pistokkeen täytyy olla sellaisessa asennossa, että siihen on helppo tarttua ongelman sattuessa.

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.

Supplied accessories

Batteries Please check and identify the supplied accessories. AC mains lead For the United For Australia and For continental Kingdom New Zealand Europe (VJA0733) (K2CJ2DA00010) (K2CQ2CA00002) (R6/LR6, AA, UM-3) 1 FM indoor antenna 1 AM loop antenna (RSA0007-L) (RSA0037) • Insert so the poles (+ and -) match those in the remote control. · Do not use rechargeable type batteries. Use in front of the unit. 1 Antenna plug adapter Remote control signal sensor For Australia and New Zealand For the United Kingdom (K1YZ02000013) (RFE0014) 2 Batteries 7 meters 30 30 Transmission window 6 000 1 Remote control (EUR7722KC0) Refer to the separate booklet, "Remote Control Operation Guide", sunlight, and the glass doors on cabinets. for remote control operation details. CAUTION!

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

For the United Kingdom and Republic of Ireland

www. panasonic.co.uk (for UK customers only)

- · Order accessory and consumable items for your product with ease
- and confidence by telephoning our Customer Care Centre Mon-Friday 9:00am- 5:30pm. (Excluding public holidays.)
- Or go on line through our Internet Accessory ordering application.
- · Most major credit and debit cards accepted.
- All enquiries transactions and distribution facilities are provided directly by Panasonic UK Ltd.
- · It couldn't be simpler!

Customer Care Centre

For UK customers: 08705 357357

For Republic of Ireland customers: 01 289 8333

Technical Support

For UK customers: 0870 1 505610

This Technical Support Hot Line number is for Panasonic PC software related products only.

For Republic of Ireland, please use the Customer Care Centre number listed above for all enquiries.

For all other product related enquiries, please use the Customer Care Centre numbers listed above.

The remote control

Aim at the sensor, avoiding obstacles, at a maximum range of 7 m directly

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

- 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.**
- DO NOT OBSTRUCT THE UNIT'S VENTILATION **OPENINGS WITH NEWSPAPERS, TABLECLOTHS,** CURTAINS, AND SIMILAR ITEMS.
- DO NOT PLACE SOURCES OF NAKED FLAMES, SUCH AS LIGHTED CANDLES. ON THE UNIT.
- **DISPOSE OF BATTERIES IN AN ENVIRONMENTALLY** FRIENDLY MANNER.

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.

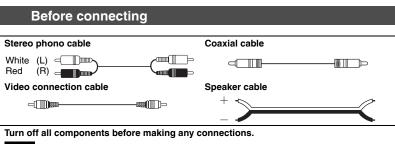
THIS UNIT IS INTENDED FOR USE IN MODERATE CLIMATES.

This product may receive radio interference caused by mobile telephones during use. If such interference is apparent, please increase separation between the product and the mobile telephone.

3QT7492

Step 1 Home Theater connections

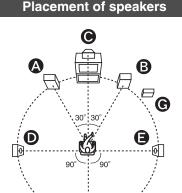
DVD player/ TV or monitor



Note

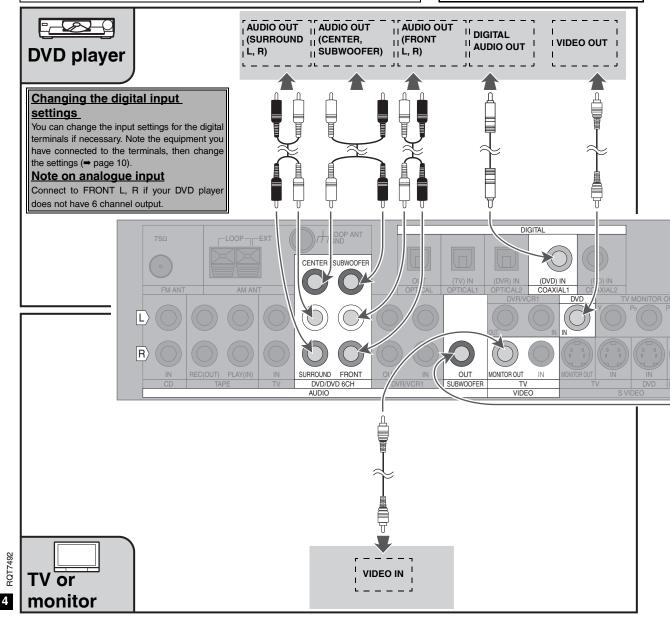
- Use a digital connection to enjoy Dolby Digital or DTS and record digital sources (
 pages 12 and 21).
- Use an analogue connection to enjoy sources that cannot be decoded on this unit and to record analogue sources (→ pages 12 and 21).
- Enjoy higher picture quality using the S VIDEO or COMPONENT terminal (= page 7).
- · Refer to pages 6 through 9 regarding connections to other equipment.

FOR THE UNITED KINGDOM ONLY READ THE CAUTION FOR THE AC MAINS LEAD ON PAGE 2 BEFORE CONNECTION.



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.

F



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

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 (D left G right)

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

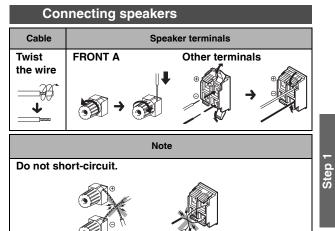
Surround back speaker ()

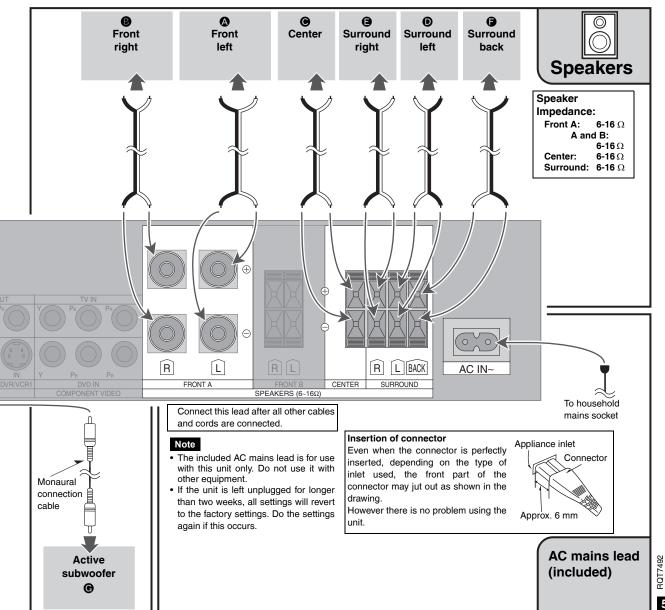
Place behind the seating area, about one meter higher than ear level.

Subwoofer ()

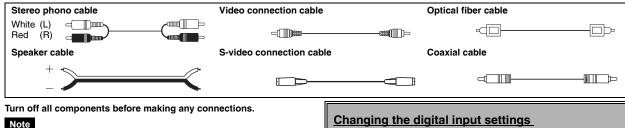
The subwoofer can be placed in any position as long as it is at a reasonable distance from the TV.

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.





Step 2 Other connections

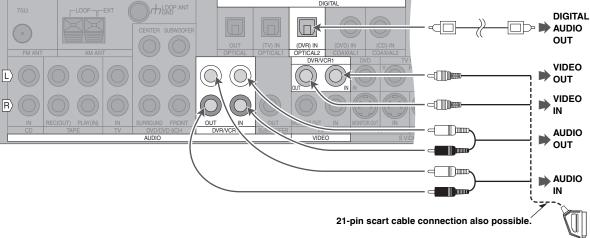


- · Do not sharply bend the optical fiber cable.
- · Use a digital connection to enjoy Dolby Digital or DTS and record digital source (⇒ pages 12 and 21).
- Use an analogue connection to enjoy sources that cannot be decoded on this unit and to record analogue sources (→ pages 12 and 21).

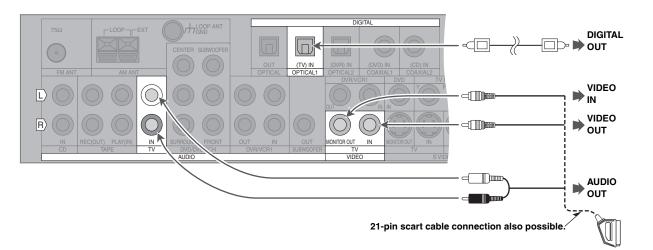
Changing the digital input settings

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).

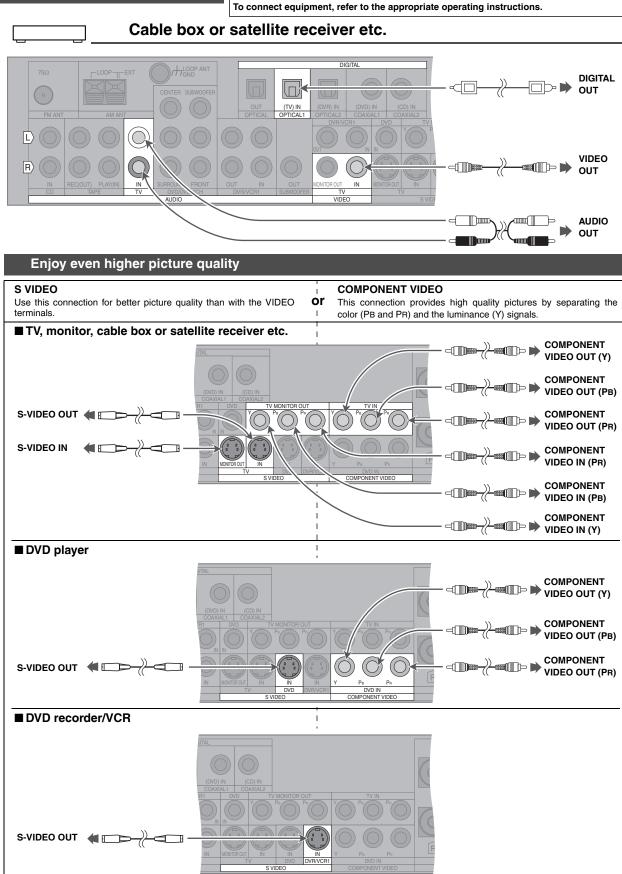
DVD recorder/VCR (DVR) IN OPTICAL 2 DVR/ L







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



Note

Video input can only be output again through the same type of terminal.

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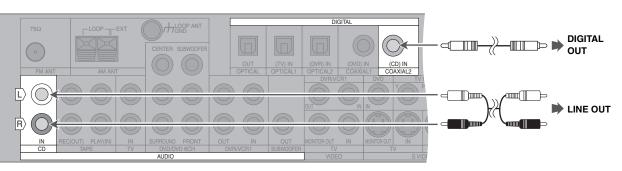
Step 2



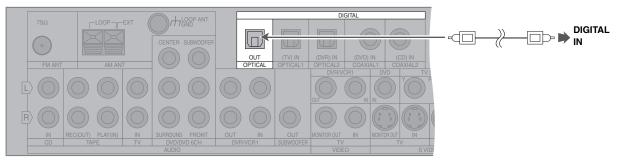
Turn off all components before making any connections.



CD player

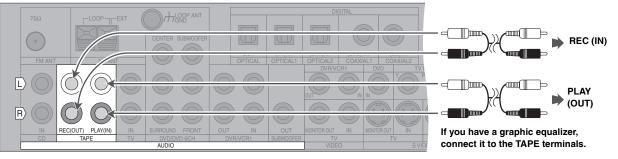


CD recorder

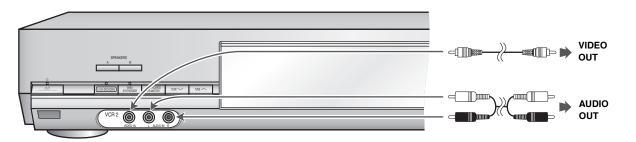




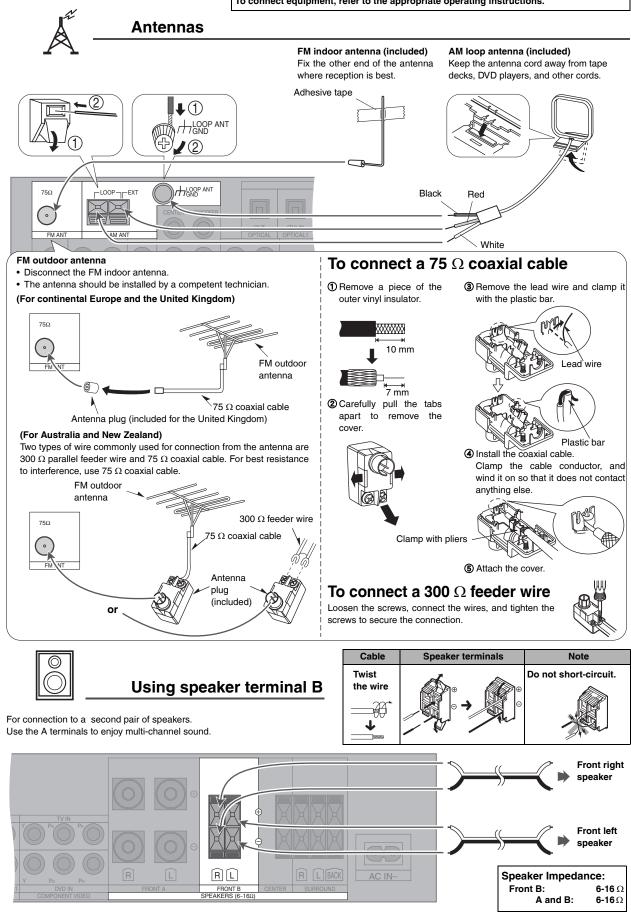
Tape deck







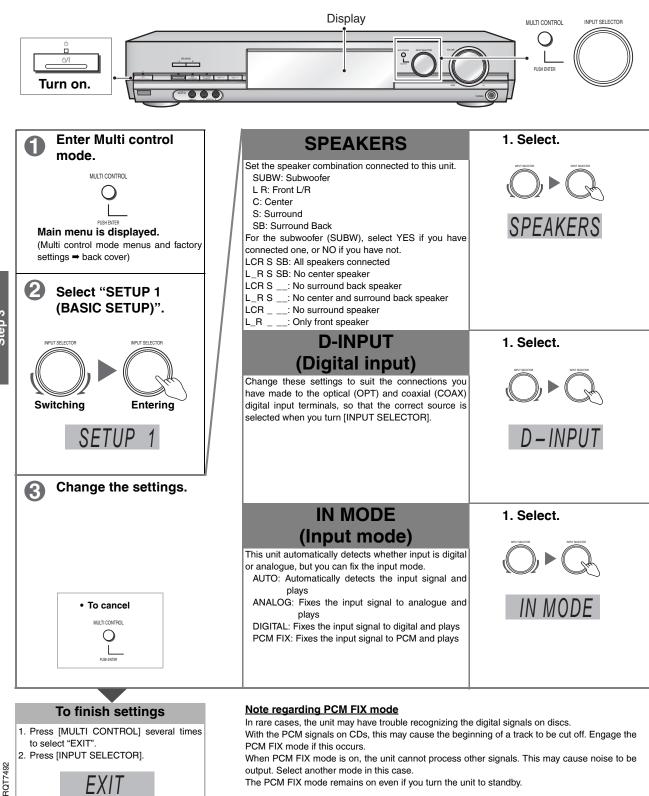
Peripheral equipment and cables sold separately unless otherwise indicated. To connect equipment, refer to the appropriate operating instructions.



Step 3 Settings

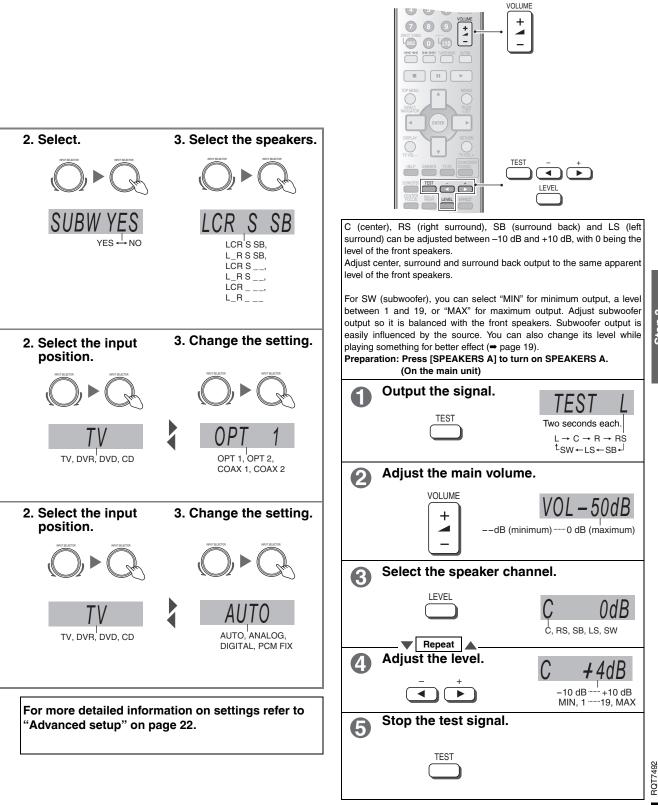
Multi control basic setup settings MULTI CONTROL

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.

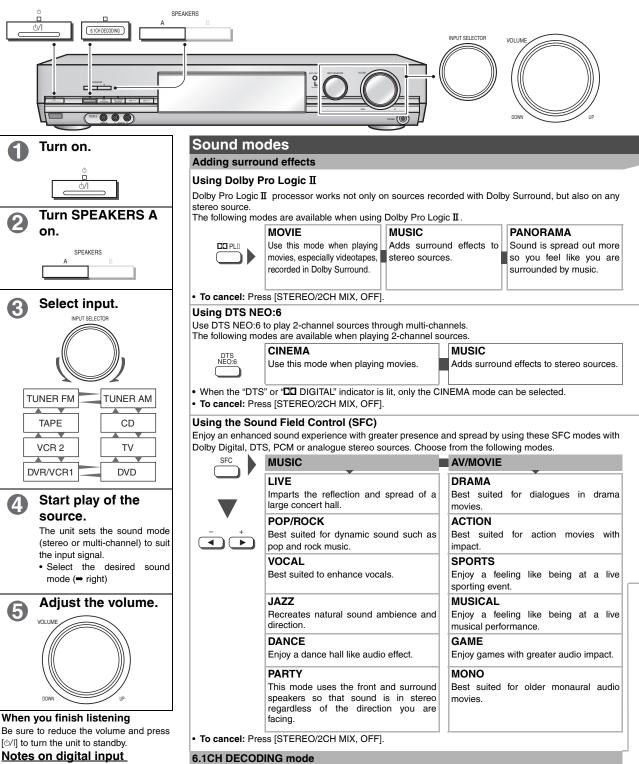


Adjusting speaker output level

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].)



Basic operations



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 ${\, {
m I\hspace{-.05cm}I}}$, 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].

Step 4

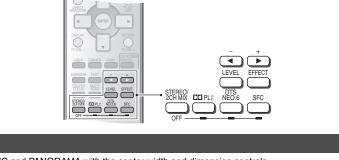
Notes on digital input

- This unit can decode the following signals:
 - · Dolby Digital, including Dolby Digital Surround FX
 - 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

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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.

EFFECT Select "C-WDTH".



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.



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.

Select "DIMEN".

EFFEC1

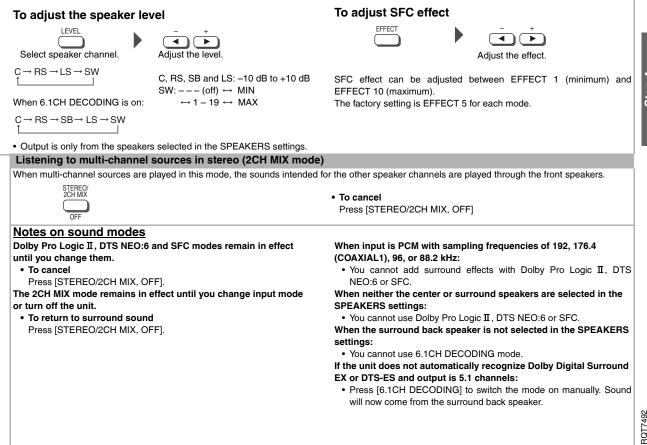


You can choose a level between 0 (the center speaker is dominant) and 5 (center sound is spread out).

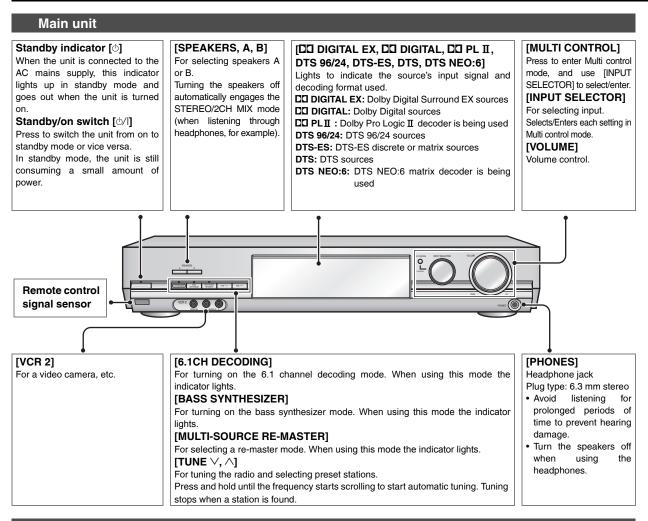
The default level is 3.



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

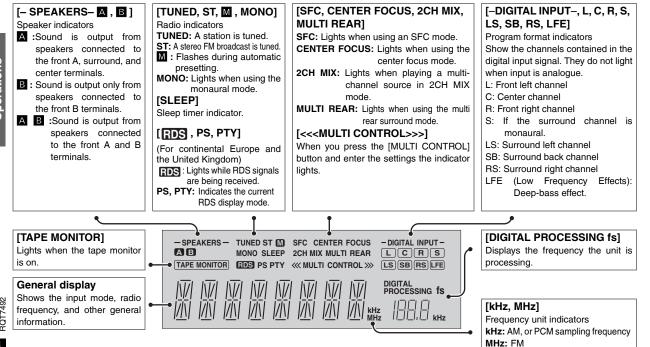


Control guide



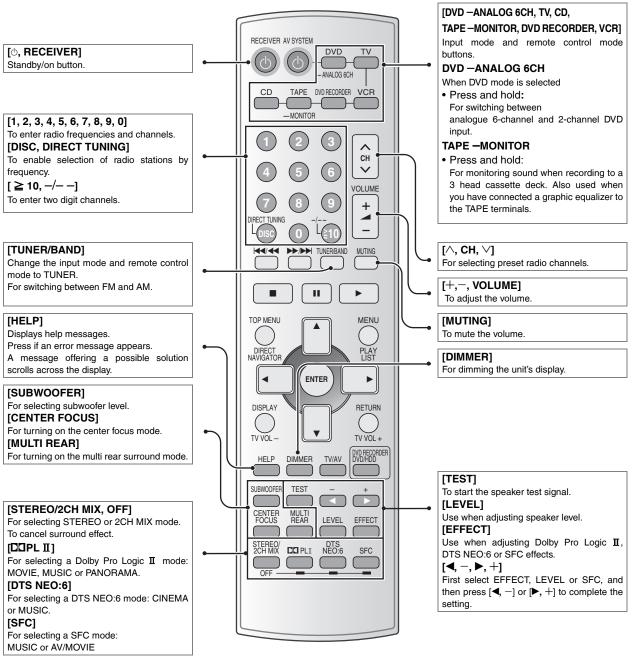
Display

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



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

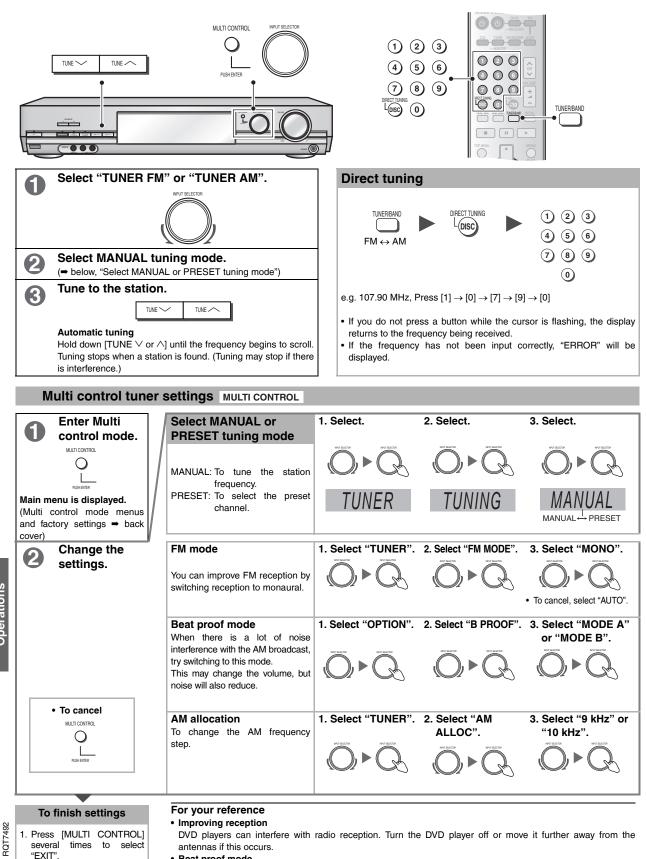
The STEREO/2CH MIX mode is engaged automatically.

- 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.

The radio

Manual tuning



"EXIT". 2. Press [INPUT SELECTOR].

Changing these settings also changes the A/D attenuator settings, which are linked. (+ page 20)

Operations

Preset tuning

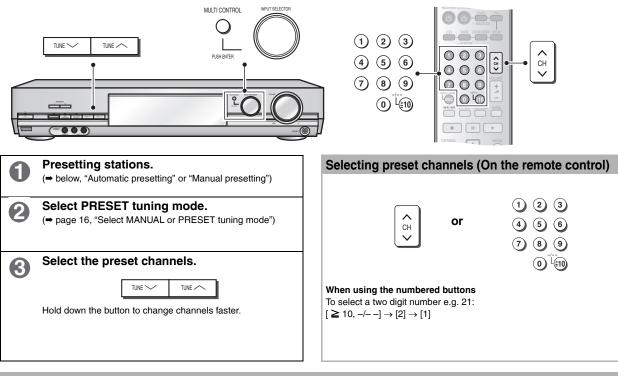
1. Press [MULTI CONTROL]

2. Press [INPUT SELECTOR].

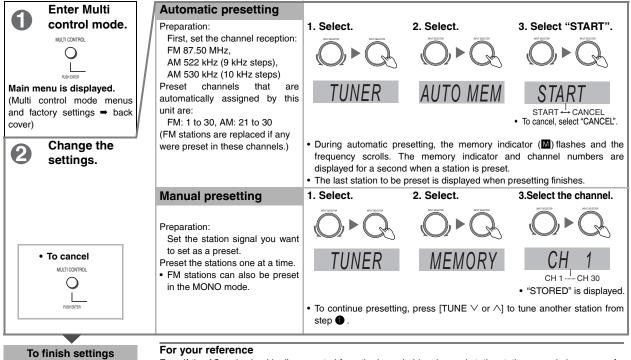
times to select

several

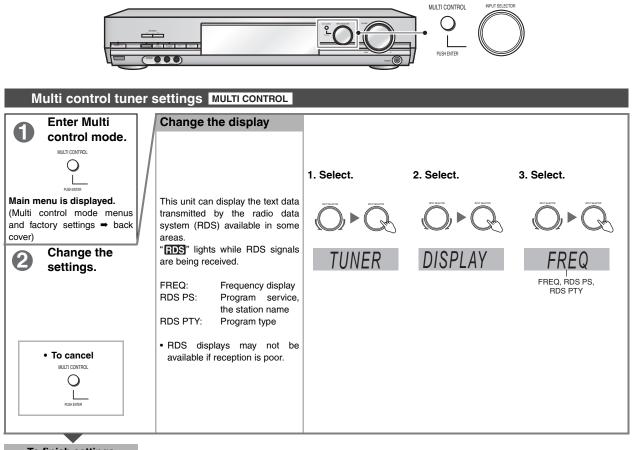
"FXIT"



Multi control tuner settings MULTI CONTROL



Even if the AC mains lead is disconnected from the household mains socket, the stations remain in memory for approximately two weeks.



To finish settings 1. Press [MULTI CONTROL]

several times to select

2. Press [INPUT SELECTOR].

"EXIT".

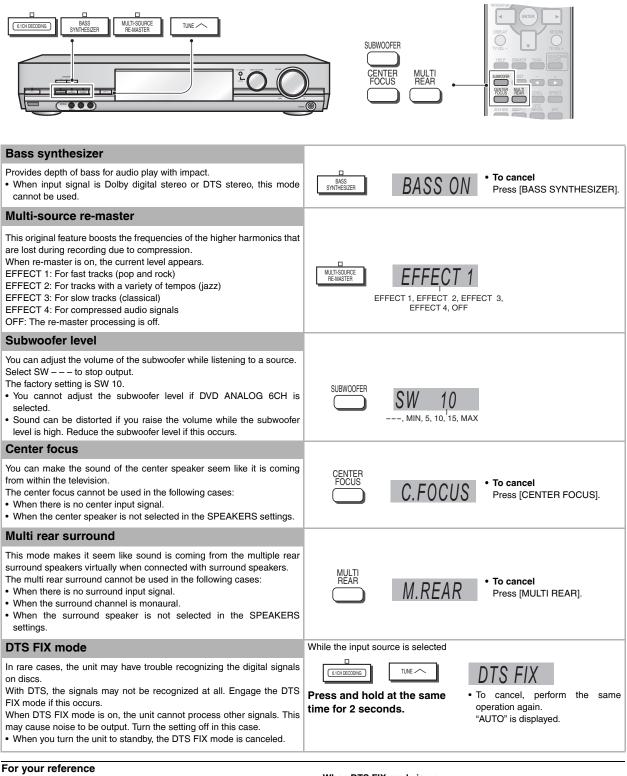
For your reference

This unit does not have the emergency broadcast system (EBS) that automatically tunes into emergency broadcasts.

PTY displa	PTY displays					
-						
NEWS	News					
AFFAIRS	Current affairs					
INFO	Information					
SPORT	Sport					
EDUCATE	Education					
DRAMA	Drama					
CULTURE	Culture					
SCIENCE	Science					
VARIED	Varied					
POP M	Pop music					
ROCK M	Rock music					
M. O. R. M	Middle-of-the-road Music					
LIGHT M	Light classical					
CLASSICS	Serious classical					
OTHER M	Other music					
WEATHER	Weather information					

	-
FINANCE	Finance
CHILDREN	Children
SOCIAL A	Social affairs
RELIGION	Religion
PHONE IN	Phone in
TRAVEL	Travel
LEISURE	Leisure
JAZZ	Jazz music
COUNTRY	Country music
NATIONAL	National music
OLDIES	Oldies
FOLK M	Folk music
DOCUMENT	Documentary
TEST	Test broadcast
ALARM	Emergency announcement

Audio settings



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

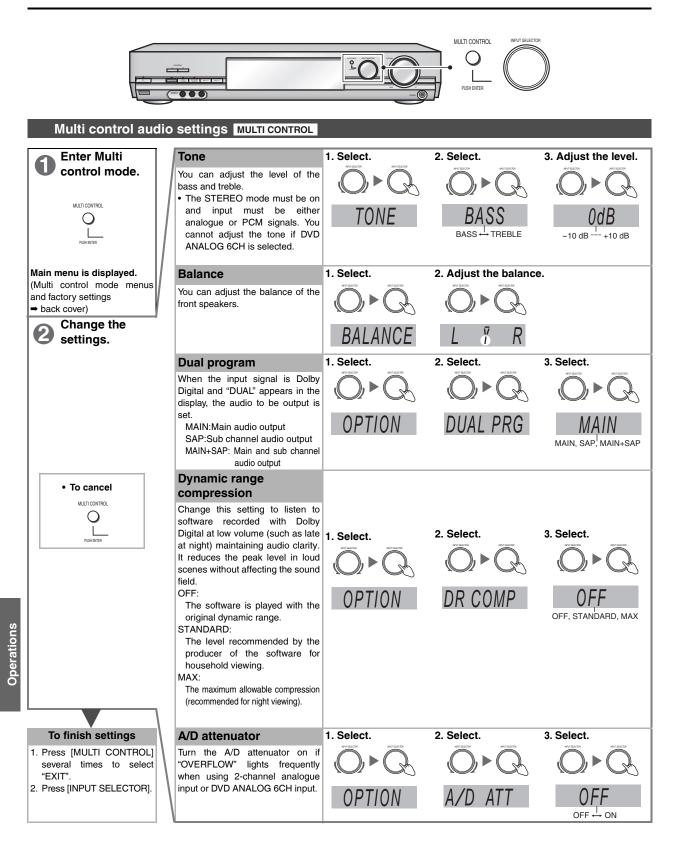
• When input signal is monaural, DTS 96/24, PCM with sampling frequencies of 192, 176.4, 96 or 88.2 kHz.

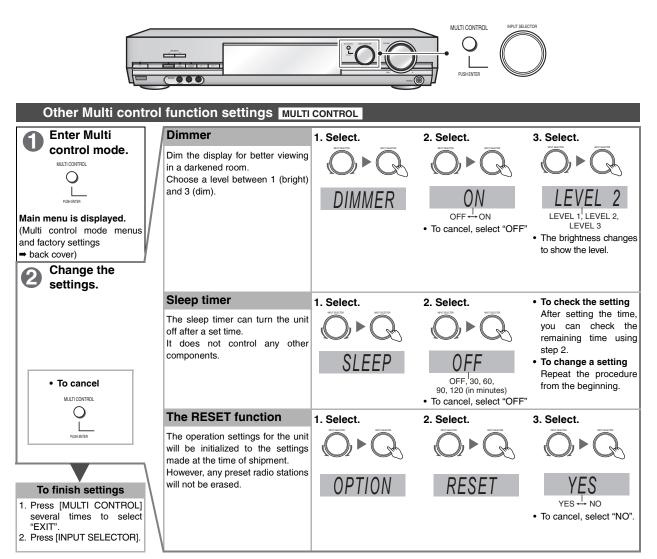
- When Dolby Pro Logic II , DTS NEO:6, SFC or multi-source re-master is on.
- The center focus or multi rear surround cannot be used in the following case.
- When input signal is PCM or analogue stereo.
- When DVD ANALOG 6CH is selected.

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).

Operations



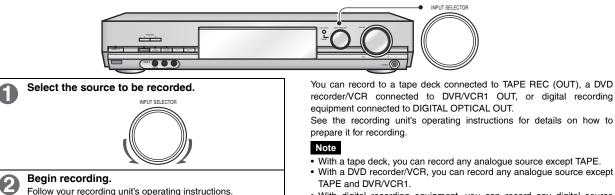


Making a recording

Start the source to be recorded.

Follow your equipment's operating instructions.

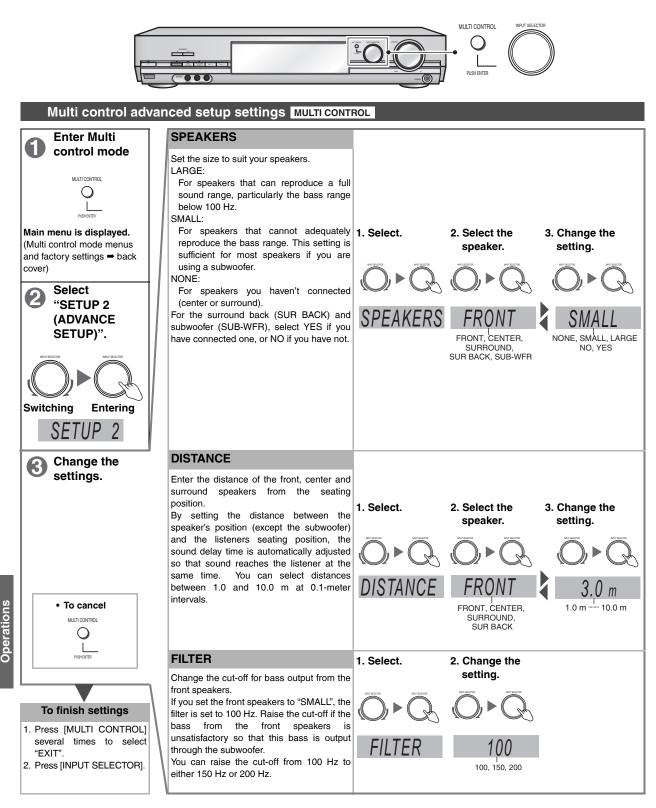
3



- 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 analogue terminals and select "ANALOG" input.

Advanced setup

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



Specifications (DIN 45 500)

■ AMPLIFIER SECTION Power output (at AC 230-240 V)	
DIN 1 kHz (T.H.D. 1 %)	2 x 100 W (6 Ω)
20 Hz-20 kHz continuous power output bot	h channels driven 2 x 80 W (6 Ω)
Total harmonic distortion	2 x 00 vv (0 52)
rated power at 20 Hz-20 kHz	0.09 % (6 Ω)
Power bandwidth both channels driven, –3 dB 4	
Power output each channel driven (at AC 230	- Hz-88 kHz (6 Ω, 0.9 %) - 240 V)
DIN 1 kHz (T.H.D. 1 %)	,
Front (L/R) Center	100 W (6 Ω) 100 W (6 Ω)
Surround (L/R/BACK)	100 W (6 Ω)
Load impedance	
Front (L/R)	0.10.0
A or B A and B	6-16 Ω 6-16 Ω
Center	6-16 Ω
_ Surround (L/R/BACK)	6-16 Ω
Frequency response CD, TV, DVD/DVD 6CH, DVR/VCR1, VCR2, TAP	DE / H7-88 kH7 +3 dB
Input sensitivity and impedance	L 4112-00 KHZ, 10 UD
CD, TV, DVD/DVD 6CH, DVR/VCR1, VCR2, T	ΆΡΕ 200 mV/22 kΩ
S/N at rated power (6 Ω) CD, TV, DVD, DVR/VCR1 (DIGITAL INPUT)	90 dB (IHF, A: 103 dB)
Tone controls	
BASS TREBLE	50 Hz, +10 to –10 dB 20 kHz, +10 to –10 dB
Output voltage	20 112, 110 10 10 00
TAPE, DVR/VCR1	200 mV
Channel balance (250 Hz-6.3 kHz) Channel separation	±1 dB 55 dB
Subwoofer frequency response (–6 dB)	7 Hz-200 Hz
Digital input (OPTICAL)	2
(COAXIAL)	2
Digital output (OPTICAL)	1
■ FM TUNER SECTION	
Frequency range Sensitivity	87.50-108.00 MHz
S/N 30 dB	1.5 μV/75 Ω
S/N 26 dB	1.3 μV/75 Ω
S/N 20 dB IHF usable sensitivity (IHF '58)	1.2 μV/75 Ω 1.5 μV/75 Ω
IHF 46 dB stereo quieting sensitivity	22 μV/75 Ω
Total harmonic distortion	
MONO STEREO	0.2 % 0.3 %
S/N	0.3 %
MONO	60 dB
STEREO	58 dB

NORSK

ADVARSEL!

- APPARATET MÅ IKKE PLASSERES I EN BOKHYLLE, ET INNEBYGGET KABINETT ELLER ET ANNET LUKKET STED HVOR VENTILASJONSFORHOLDENE ER UTILSTREKKELIGE. SØRG FOR AT GARDINER ELLER LIGNENDE IKKE FORVERRER VENTILASJONSFORHOLDENE, SÅ RISIKO FOR ELEKTRISK SJOKK ELLER BRANN FORÅRSAKET AV OVERHETING UNNGÅS.
- APPARATETS VENTILASJONSÅPNINGER MÅ IKKE DEKKES TIL MED AVISER, BORDDUKER, GARDINER OG LIGNENDE.
- PLASSER IKKE ÅPEN ILD, SLIK SOM LEVENDE LYS, OPPA APPARATET.
- BRUKTE BATTERIER MÅ KASSERES UTEN FARE FOR MILJØET.

ADVARSEL:

FOR Å REDUSERE FAREN FOR BRANN, ELEKTRISK STØT ELLER SKADER PÅ PRODUKTET, MÅ DETTE APPARATET IKKE UTSETTES FOR REGN, FUKTIGHET, VANNDRÅPER ELLER VANNSPRUT. DET MÅ HELLER IKKE PLASSERES GJENSTANDER FYLT MED VANN, SLIK SOM BLOMSTERVASER, OPPÅ APPARATET.

DETTE APPARATET ER BEREGNET TIL BRUK UNDER MODERATE KLIMAFORHOLD.

Frequency response 20 Hz-15 kHz	+1 dB, –2 dB
Alternate channel selectivity ±400 kHz	65 dB
Capture ratio	1.5 dB
Image rejection at 98 MHz	40 dB
IF rejection at 98 MHz	70 dB 70 dB
Spurious response rejection at 98 MHz AM suppression	70 dB 50 dB
Stereo separation	50 UB
1 kHz	40 dB
Carrier leak	10 42
19 kHz	–30 dB
38 kHz	–50 dB
Channel balance (250 Hz-6.3 kHz)	±1.5 dB
Limiting point Bandwidth	1.2 μV
IF amplifier	180 kHz
FM demodulator	1000 kHz
Antenna terminal	75Ω (unbalanced)
	(
■ AM TUNER SECTION	
Frequency range	522-1611 kHz (9 kHz steps)
Considuate	530-1620 kHz (10 kHz steps)
Sensitivity Selectivity (at 999 kHz)	20 μV, 330 μV/m 55 dB
IF rejection (at 999 kHz)	50 dB
■ VIDEO SECTION	
Output voltage at 1 V input (unbalanced	
Maximum input voltage	1.5 Vp-p

Power consumption in standby mode:	1 W
Mass	4.2 kg
Dimensions (W x H x D)	430 x 83 x 376 mm
Power consumption	135 W
Power supply	AC 230-240 V, 50 Hz
■ GENERAL	
Output	TV MONITOR
Component Video Input	TV, DVD
Output	TV MONITOR
S-Video Input	TV, DVD, DVR/VCR1
Input/output impedance	75 Ω (unbalanced)
Maximum input voltage	1.5 Vp-p
output voltage at 1 v input (unbalanceu)	1±0.1 vp-p

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.

SUOMI

VAROITUS!

- ÄLÄ ASENNA TAI LAITA TÄTÄ LAITETTA KABINETTITYYPPISEEN KIRJAKAAPPIIN TAI MUUHUN SULJETTUUN TILAAN, JOTTA TUULETUS ONNISTUISI. VARMISTA, ETTÄ VERHO TAI MIKÄÄN MUU MATERIAALI EI HUONONNA TUULETUSTA, JOTTA VÄLTETTÄISIIN YLIKUUMENEMISESTA JOHTUVA SÄHKÖISKU- TAI TULIPALOVAARA.
- ÄLÄ PEITÄ LAITTEEN TUULETUSAUKKOJA SANOMALEHDELLÄ, PÖYTÄLIINALLA, VERHOLLA TAI MUULLA VASTAAVALLA ESINEELLÄ.
- ÄLÄ ASETA PALAVAA KYNTTILÄÄ TAI MUUTA AVOTULEN LÄHDETTÄ LAITTEEN PÄÄLLE.
- HÄVITÄ PARISTOT LUONTOA VAHINGOITTAMATTOMALLA TAVALLA.

VAROITUS:

TULIPALO-, SÄHKÖISKUVAARAN TAI TUOTETTA KOHTAAVAN MUUN VAHINGON VÄHENTÄMISEKSI EI LAITETTA SAA ALTISTAA SATEELLE, KOSTEUDELLE, VESIPISAROILLE TAI ROISKEELLE, EIKÄ NESTETTÄ SISÄLTÄVIÄ ESINEITÄ. KUTEN ESIMERKIKSI MALJAKOITA, SAA ASETTAA LAITTEEN PÄÄLLE.

KÄYTETTÄVÄKSI TÄMÄ LAITE ON TARKOITETTU LEUDOSSA ILMASTOSSA.

Troubleshooting guide

Before requesting service, make the below checks.

If you can't fix the unit as described or if something not listed here occurs, contact your dealer.

■ Common problems

Common problems		Pages
No power.	Ensure the AC mains lead is connected.	5
No sound.	 Turn the volume up. Check connections to speakers and other equipment. Select the correct source. Turn on the speakers. Turn off the tape monitor. 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. Turn PCM FIX or DTS FIX off. 	12 4-9 12 12 15 10 12 10, 19
Sound stops. "F 76" or "OVERLOAD" appears on the display for about a second, and the unit turns 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 mains lead, 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, 22 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, 22 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

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, leads, and appliances. 	9 9 20 - -
The correct AM frequency cannot be tuned in.	Change the frequency step to suit your area when AM is selected.	16

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

Main menu	Sub menu	(factory sett	ings)	Main menu	Sub menu (factory settings)			Main menu	lain menu Sub menu (factory settings)					
	TUNING	MANUAL	œ	OPTION	B PROOF	MODE A		ø			FRONT			
TUNER	FM MODE	AUTO	W		RESET	YES		0			CENTER SMALL			
(TUNER	MEMORY	CH 1	Ð		SPEAKERS	SUBW YES	LCR S SB			SPEAKERS	SURROUND			
mode	AUTO MEM	START	w		SFLARENS	SUBW NO	LON 3 35		SETUP 2		SUR BACK YES			
only)	DISPLAY	FREQ	₿			TV	OPT 1				SUB-WFR			
	AM ALLOC	9 kHz	ß		D-INPUT	DVR	OPT 2		SETOP 2		FRONT 3.0 m	- @		
TONE	BASS	0dB	0			SETUP 1		DVD	COAX 1			DISTANCE	CENTER	
IONE	TREBLE	UUB		SEIUPI		CD	COAX 2	0		DISTANCE	SURROUND 1.5 m			
BALANCE	LŸR			-				TV					SUR BACK	
DIMMER	OFF				IN MODE	DVR	AUTO			FILTER	100			
	ON	LEVEL 2	0	0	0			DVD	AUTO		EXIT	➡Exit the N	Julti control mode	
SLEEP	OFF					CD					/			
	DUAL PRG	MAIN												
OPTION	DR COMP	COMP OFF												
	A/D ATT OFF													

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.

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