

Important notes for users in the U.K.

Mains plug

This apparatus is fitted with an approved 13 Amp plug. To change a fuse in this type of plug proceed as follows:

- 1 Remove fuse cover and fuse.
- **2** Fix new fuse which should be a BS1362 5 Amp, A.S.T.A. or BSI approved type.
- **3** Refit the fuse cover.

If the fitted plug is not suitable for your socket outlets, it should be cut off and an appropriate plug fitted in its place. If the mains plug contains a fuse, this should have a value of 5 Amp. If a plug without a fuse is used, the fuse at the distribution board should not be greater than 5 Amp.

Note: The severed plug must be disposed of to avoid a possible shock hazard should it be inserted into a 13 Amp socket elsewhere.

How to connect a plug

The wires in the mains lead are coloured with the following code: blue = neutral (N), brown = live (L).

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

- Connect the blue wire to the terminal marked N or coloured black.
- Connect the brown wire to the terminal marked L or coloured red.

Before replacing the plug cover, make certain that the cord grip is clamped over the sheath of the lead - not simply over the two wires.

Copyright in the U.K.

Recording and playback of material may require consent. See Copyright Act 1956 and The Performer's Protection Acts 1958 to 1972.

Italia

DICHIARAZIONE DI CONFORMITA'

Si dichiara che gli apparecchi FR 965 e FR 975 Philips rispondono alle prescrizioni dell'art. 2 comma 1 del D. M. 28 Agosto 1995 n. 548.

Fatto a Eindhoven, il 01/03/2000 (FR 965) Fatto a Eindhoven, il 01/04/2000 (FR 975)

Philips Consumer Electronics
Philips, Glaslaan 2
5616 JB Eindhoven. The Netherlands

Norge

Typeskilt finnes på apparatens bakside.

Observer: Nettbryteren er sekundert innkoplet. Den innebygde netdelen er derfor ikke frakoplet nettet så lenge apparatet er tilsluttet nettkontakten.

For å redusere faren for brann eller elektrisk støt, skal apparatet ikke utsettes for regn eller fuktighet.

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GENERAL INFORMATION

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Receiver	

This set complies with the radio interference requirements of the European Community.

Scope of supply

This receiver is supplied including:

- an universal remote control
- 2 batteries for the remote control, size AA
- a coaxial cable for audio connection with a DVD player
- a system bus cable for the CINEMA LINK connection
- a loop antenna
- a wire antenna
- this instruction booklet

Setup

If you have stacked the components of your system, the receiver must be on top. Place the receiver on a flat, hard, stabile surface. Do not cover any vents and leave 50 cm above and 10 cm left and right of the receiver free for ventilation.

For good reception the loop antenna should not be placed on top of or beneath VCRs, CD recorders, DVD players, TVs and other radiation sources.

Environmental information

All redundant packing material has been omitted. We have done our utmost to make the packaging easily separable into three mono materials: cardboard (box), polystyrene foam (buffer) and polyethylene (bags, protective foam sheet).

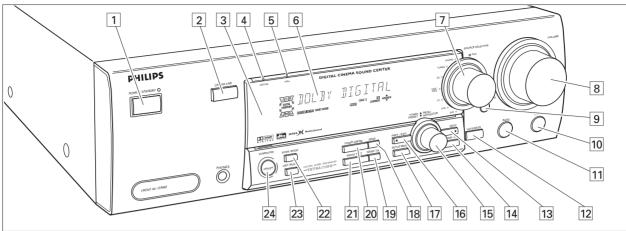
Your set consists of materials which can be recycled if disassembled by a specialized company. Please observe the local regulations regarding the disposal of packing materials, exhausted batteries and old equipment.

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

Trademark acknowledgment

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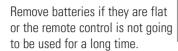


	Switches the receiver on and offSwitches the system control bus
	between the receiver and the TV on and off
3	Sensor for the infrared remote
4 VIRTUAL	Control light for virtual surround.
5 HALL	Control light for HALL.
6	Display
7 SOURCE SELECTOR	Selects the different audio and video connectors.
○ V∩IIIMF	Increases and decreases the
o VOLONIE	volume level.
9 FRONT AV	Selects the FRONT AV / GAME
_	input (FR 975 only).
10 TREBLE	Adjusts the treble when used in
	combination with VOLUME.
11 BASS	Adjusts the bass when used in
	combination with VOLUME.
	Switches LOUDNESS on and off.
13 NEXT ▶	TUNER: searches radio stations.
	MENU: switches to the next
	menu level.
14 ENTER / OK	Confirms selected menu values.

15 TUNER PRESET ♦ MENU NAVIGATOR		
	TUNER: switches to the next and previous stored radio station. MENU: moves upwards and downwards.	
16 ▼ PREV. / EXIT	TUNER: searches radio stations.	
	MENU: switches to the previous menu level	
47 CETIID MENII	1110110 10101.	
	Switches the menu on and off.	
18 SENS.	Switches between low and high	
	tuner sensitivity.	
19 NEWS/TA	Switches the RDS news and	
	RDS traffic announcement on	
	and off.	
20 TUNER AM/FM	Switches the wavebands of the	
	tuner.	
21 RADIO TEXT	Scrolls through the different RDS	
	information.	
22 SURR MODE	Switches through the different	
22 001111 111022	speaker configurations.	
23 VIRT. MODE	Scrolls through the different	
	virtual surround sound modes	
OF CHEROLIND ON/OFF	Switches between the last	
24 SUNNUUNU UN/UFF	selected surround mode and	
	stereo.	

Remote control usage

Open the battery compartment of the remote control and insert 2 alkaline batteries, type **AA** (R06, UM-3).





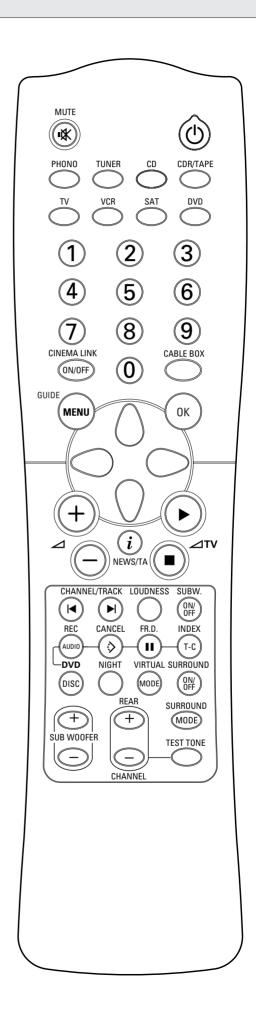
Batteries contain chemical substances, so they should be disposed of properly.

The buttons on the remote control work the same way as the corresponding ones on the receiver.

Important!

You have to press a source button for longer than 1 second to switch the sound source on the receiver. Pressing a source button for less than 1 second will only switch the remote control to use the commands for the selected product.

The remote control remains tuned to the selected source until another source button on the remote control is pressed. This enables you to operate additional sources (i. e. winding a tape) without changing the source on the receiver.



Remote control	buttons	REC, DVD AUDIO	CDR, VCR: Starts recording. DVD: Switches audio tracks.
■ MUTE	Mutes the sound of the receiver.	CANCEL DVD >	CD, CDR, SAT, VCR: Clears a
ტ PHONO, TUNER, CD,	Switches the receiver to standby.		program, cancels selections. DVD: Switches the view angle.
CDR/TAPE, TV, VCR. SAT. DVD	Switches the remote control to the	FR.D., DVD 💵	TUNER: Switches to FREQUENCY DIRECT.
,	commands of the different products.		CD, CDR, VCR, DVD: Pauses playback.
	Selects the sources if pressed longer than 1 second. SAT only works with	INDEX, DVD T-C	VCR: Switches the index search on
	digital satellite receivers.		and off. SAT: Switches the themes on and off.
1–0	Keys in numbers for tracks, stations or frequencies. Numbers consisting of		DVD: Switches between title and chapter.
	two figures must be keyed in within 2 seconds.	DISC	CD-, CDR-, DVD-Changers: Switches to the next disc.
CINEMA LINK ON/OFF.	Switches the system connection		Switches NIGHT MODE on and off.
OARLE DOV	between the receiver and the TV on and off.	VIRTUAL MODE	Scrolls through the different virtual surround sound modes.
CABLE BOX	Without functionTUNER: Switches the receiver menu		Switches SURROUND SOUND on and off.
WENO GOIDE	on and off.	+/- SUBWOOFER	Increases/decreases the subwoofer volume.
	DVD, TV: Switches the DVD/TV menu	+/- REAR	Increases/decreases the volume of the
Oν	on and offConfirms menu options.	. ,	rear speakers. While test tone is on,
	TUNER: Moves in the menus.		the volume of the speakers you are
7 11 0 W Battono	Right/left arrows are tuning up/down.		hearing can be increased/decreased with these buttons.
	CD, CDR: Left/right arrows are	SURROUND MODE	Scrolls through the different surround
	searching backwards/forwards, up/down arrows are selecting the		modes.
	next/previous track.	TEST TONE	Switches the test tone on and off. While test tone is on, the volume of
	Increases the receiver volume.		the speakers you are hearing can be
•	Decreases the receiver volume.		increased/decreased with
INEVVS/TA	Switches the functions NEWS and TRAFFIC ANNOUNCEMENT on and off.		+/− REAR.
	TV: Switches teletext on and off.		
	SAT : Switches the information text on and off.		
► ⊿TV	Increases the TV volume.		
	CD, CDR, VCR, DVD: Starts playback.		
■ ⊿TV	Decreases the TV volume. CD, CDR, VCR, DVD: Stops playback.		
CHANNEL/TRACK .	Selects the previous preset tuner		
	station.		
	VCR: Rewinds the tape. CD, CDR, DVD: Selects the previous		
	track.		
	TV: Selects the previous channel.		
► CHANNEL/TRACK.	Selects the next preset tuner station. VCR: Fast forwards the tape.		
	CD, CDR, DVD: Selects the next track. TV: Selects the next channel.		
LOUDNESS	Switches LOUDNESS on and off.		
SUBW. ON/OFF			

Programming the universal remote control

You can identify the universal remote control by the inscription Multibrand/Universal.

The universal remote control must be programmed to use the codes for your appliances of different brands. This is done by keying in a 4-digit code or by scanning the codes until the correct one is found. We recommend to using the 4-digit code. This method is faster and more reliable. The code scanning method should only be used if you cannot find the code for one of your appliances. The code table can be found at the end of the booklet.

Important!

The buttons of the remote control must be used for programming, not the buttons of the receiver or other appliances.

Programming with the 4-digit code

- **1** Keep the source button for the appliance which should be controlled and b pressed for 3 seconds.
- **2** Key in the 4-digit code for the appliance (codetable at the end of the booklet).

Notes: — If more than 4 digits are entered, the remote control will recognize only the ones keyed in first.

- If you do not key in a code within 30 seconds the remote control will switch off the programming function without changing the code.
- To program a new appliance, simply overwrite the old code by entering a new one.

Scanning the codetable

- 1 Switch on the appliance which should be controlled.
- 2 Keep the source button for the appliance which should be controlled and \circlearrowleft pressed for 3 seconds.
- **3** Press and release (b) again.
 - → The remote control sends the codes for channel up or standby (depending on the selected source) for one brand after the other.
- **4** As soon as the appliance reacts switches to the next channel or to standby press 1 to confirm the code.
 - The identified code will be used.
- If the set does not react within 2 minutes, the code for this appliance is not stored in the remote control. The code of the remote control will remain unchanged.

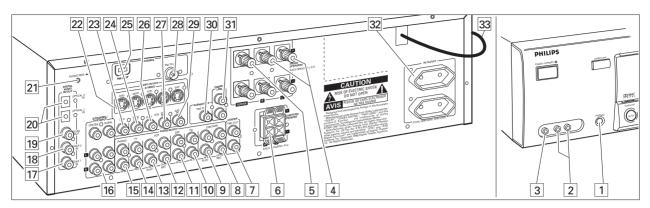
Note: When taking out the batteries of the remote control for more than 1 minute the codes must be reprogrammed.

Once you have found and tested the codes for your various appliances, you may want to write them down here.

PHONO
TUNER
CD
CDR/TAPE
TV
VCR
SAT
DVD

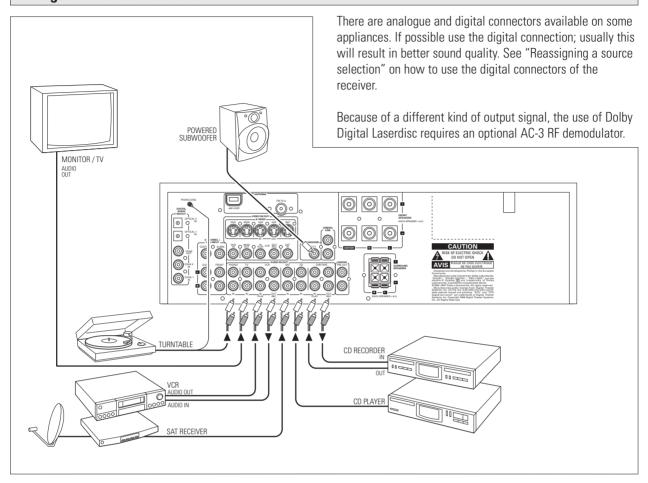
Resetting the remote control

- **1** Keep one of the source buttons and 0 pressed for 3 seconds.
- 2 Key in the 3-digit code 981.
 - → The remote control is now reset to all its original Philips codes.

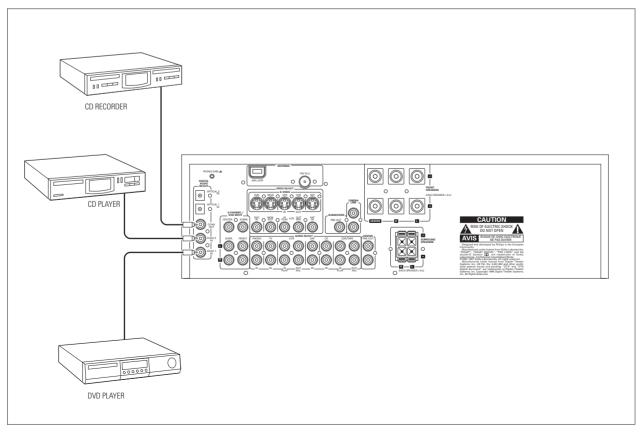


Connectors	Connectors name	Connect to:
6.3 mm headphone socket at the front	1 PHONES	A headphone with a 6.3 mm plug.
Audio and video inputs at the front (FR 975 only)	2 FRONT AV / GAME	Left and right audio out sockets of appliances such as video cameras and game consoles.
	3 FRONT AV / GAME	Video out sockets of appliances such as video cameras and game consoles.
FRONT SPEAKERS	4 R, L	Right and left front speaker.
	5 CENTER	Center speaker.
SURROUND SPEAKERS	6 R , L	Right and left surround speaker.
AUDIO IN/OUT	8 CDR/TAPE OUT	Input of a CD recorder or a tape deck.
	9 CDR/TAPE IN	Output of a CD recorder or a tape deck.
	10 CD IN	Output of a CD player.
	11 SAT IN	Output of a satellite system.
	12 VCR OUT	Input of a video recorder.
	13 VCR IN	Output of a video recorder.
	14 TV IN	Output of a TV.
	15 PHONO IN	Output of a turntable with MM coil.
	21 PHONO GND m	Ground cable of a turntable.
6 CHANNEL / DVD INPUT	16 6 CHANNEL / DVD INPU	T 6 channel output of appliances such as DVD or laserdisc players.
DIGITAL AUDIO IN/OUT	17 COAX 1 IN	Coaxial output of digital appliances (default input for source DVD).
	18 COAX 2 IN	Coaxial output of digital appliances.
	19 COAX OUT	Coaxial input of digital appliances such as CD recorders or MD recorders.
	20 OPTICAL IN	Optical output of digital appliances such as DVD players, CD players, CD recorders or MD players (FR 965 only).
	20 OPTICAL 1 (2) IN	Optical output of digital appliances such as DVD players, CD players, CD recorders or MD players (FR 975 only).
VIDEO IN/OUT	22 S-VIDEO	S-Video inputs/outputs of video appliances for better video quality (FR 975 only).
	23 DVD IN	Output of a DVD player.
	24 MON OUT	Input of a monitor (e. g. the TV).
	26 VCR IN	Output of a video recorder.
	27 VCR OUT	Input of a video recorder (for recording).
	29 SAT IN	Output of a satellite system.
Antenna connectors	25 AM LOOP	Frame antenna supplied.
	28 FM 75 Ω	Wire antenna supplied or exterior antenna.
Preamplified outputs	7 CENTER PRE-OUT	Input of a TV when it is used as the centre speaker (only possible when the CINEMA LINK system bus is connected).
	30 SUBWOOFER PRE-OUT	Input of a powered subwoofer.
System control bus	31 CINEMA LINK	System control bus sockets of a Philips TV with CINEMA LINK.
Mains outlets (not on all versions)	32 AC OUTLET	Supplies same voltage as mains. Up to 100 W total permitted load.
Mains lead	33	After all other connections have been made , connect the mains lead to the wall socket.

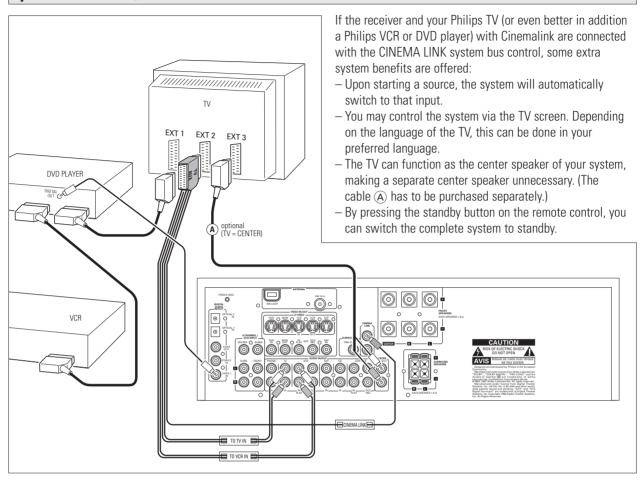
Analogue audio connections



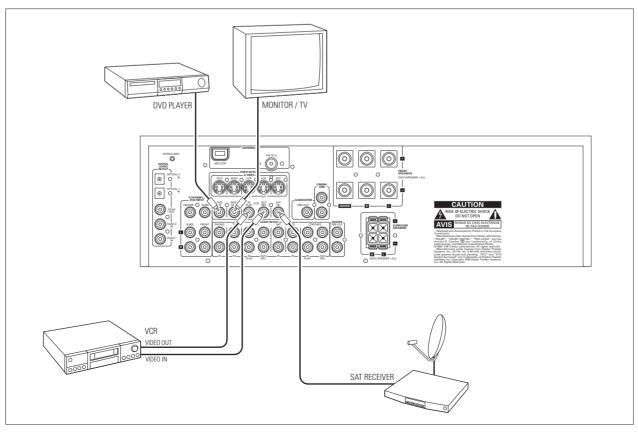
Digital audio connections



System control bus, CINEMA LINK



Video connections



Mains

The type plate is located on the rear of the receiver.

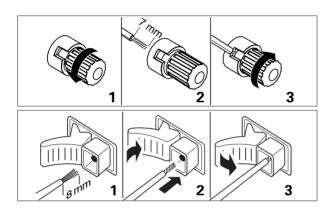
- 1 Check whether the mains voltage as shown on the type plate corresponds to your local mains voltage. If it does not, consult your dealer or service organization.
- **2** Connect the mains cable to the wall socket.

To disconnect the set from the mains completely, remove the mains plug from the wall socket.

For users in the U. K.: please follow the instructions on page 2.

Speaker connections

Some of the speaker connections on the receiver are screw connectors and some are click-fit connectors. Use them as shown below.



1 Always connect the coloured (or marked) wire to the coloured terminal and the black (or unmarked) wire to the black terminal.

2 Connect:

- Left front speaker to L (red and black)
- Right front speaker to R (red and black)
- Center speaker to CENTER (blue and black)
- Left surround speaker to SURROUND L (grey and black)
- Right surround speaker to SURROUND R (grey and black)

TV as the center speaker

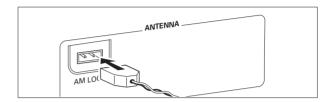
You may use your Philips TV with CINEMA LINK as the center speaker. For TVs with a scart connector an additional audio cinch-to-scart cable is needed. For TV's with cinch connectors additional cinch cables are needed. These cables must be connected to the blue CENTER PRE-OUT connector on the back. Look into the instruction manual of your TV on how to use it as the center speaker.

Antenna connections

AM (MW) antenna

The loop antenna supplied is for indoor use only. Position the antenna as far away as possible from the receiver, the TV, the cables, a DVD player, a VCR and other radiation sources.

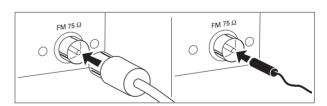
- Fit the plug of the frame antenna to AM LOOP as shown below.
- 2 Turn the antenna for optimum reception.



FM antenna

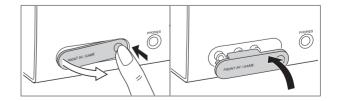
The wire antenna supplied can only be used to receive nearby stations. For better reception we recommend using a cable antenna system or an outdoor antenna.

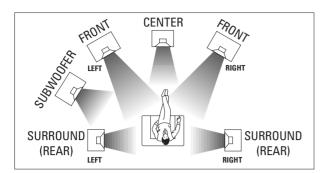
- **1** Fit the supplied wire antenna to FM 75 Ω as shown below.
- **2** Move the antenna in different positions for optimum reception.
- If you are using a cable antenna system or an outdoor antenna, fit the antenna plug to FM 75 Ω instead of the wire antenna.



FRONT AV / GAME cap (FR 975 only)

- To remove the FRONT AV / GAME cap, press on the right side of the cap.
- Insert the cap from below to close the compartment.





Positioning of the speakers

General hints for positioning

Avoid positioning the speakers in a corner or on the floor as this will boost the bass tones too much. Placing the speakers behind curtains, furniture, etc. will reduce the treble response. The listener should always be able to "see" the speakers.

Each room has different acoustic characteristics and the positioning possibilities are often limited. You can find the best position for your speakers by referring to the picture above.

As a minimum we recommend 5 speakers (2 front, a center, 2 surround) for good surround sound. It is possible to reproduce some kind of surround sound with fewer speakers. This is done by redirecting the signals which are foreseen for the missing speakers to the existing ones. See "Menus" on how to set up the receiver correctly for the number and size of the speakers used.

Positioning the front speakers

The front speakers should be placed right and left in front of the listening position like usual stereo speakers.

Positioning the center speaker

The center speaker should be placed in the center between the two front speakers, e. g. underneath or on top of the TV. The best height for the center speaker is the height of the listener's ears (while seated).

Positioning the surround speakers

The surround speakers should face each other and be in line with, or slightly behind the listener.

Positioning the subwoofer

A subwoofer can be used to enhance the bass performance of your system dramatically. The subwoofer can be positioned anywhere in the room, because it is not possible to locate the source of deep tones. Nevertheless, you should not place the subwoofer in the middle of a room, since the bass could be severely weakened. Do not place any object on the subwoofer.

Speaker setup and testing

The relative volume of the speakers must be adjusted for optimal surround sound. You should be at your usual listening position when adjusting the speaker volume. See "Receiver menus" on how to set up the receiver for the used speakers. Ideally, the volume in the listening position should be the same from all speakers.

- 1 Press POWER / STANDBY to switch on the receiver.
- 2 Press TEST TONE on the remote control.
 - → A test tone coming from the different speakers, except the subwoofer, is heard.
- **3** Press +/— REAR on the remote control to increase/decrease the volume of the actual speaker. The best result is achieved when all speakers have equal volume in the listening position.
- **4** Press TEST TONE on the remote control.
 - The test tone stops.

Note: If you are not completely satisfied with the volume settings, we recommend making minor adjustments to them during surround sound playback.

Power handling

If the receiver is used at very high power it can produce distortions which may seriously damage your speakers. If distortions occur, reduce the volume and the tone controls to a level where the sound is acceptable again.

To avoid overheating of the set a safety circuit has been built in. Therefore your set may disconnect under extreme conditions. If this happens, switch the set off and let it cool down before reusing it.

Headphones

Connecting headphones to PHONES will switch off the speakers. The receiver switches to STERED and surround sound will be reduced to a stereo signal which is reproducible by standard headphones.

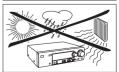
Disconnecting the headphones switches on the speakers again. If you wish to enjoy surround sound again, switch the receiver back to surround sound.

Maintenance

Clean the receiver with a soft, slightly dampened, lint-free cloth. Do not use any cleaning agents as they may have a corrosive effect.



Do not expose the receiver to humidity, rain, sand or excessive heat (caused by heating equipment or direct sunlight).



Display

The display of the receiver is divided into 4 sections, which are to be used for the following:

Speaker diagram



A rectangle with a letter in it shows that a speaker has been selected in the setup menu. However, the subwoofer indicator will only light when a subwoofer signal is available. If only a letter is shown, this speaker is not used and its sound is reproduced by the other speakers.

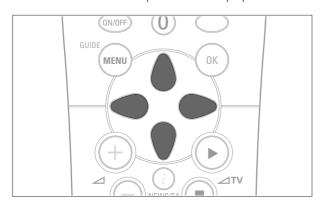
a) (e	virtual surround sound
SURROUND	surround sound is reproduced
DIGITAL SURROUND .	digital surround sound is reproduced
L, R	front left and right speaker
C	center speaker
SL, SR	surround speakers
SW	subwoofer

Menu indication



These signs show you if the menu is on or off and indicate in which direction you may move.

MENU	You may move backwards to the previous
	menu topic using ◀ PREV. / EXIT ("left"
	key on the remote control).
A	You may move up in an option list using
	♦ MENU NAVIGATOR ("up" key on the
	remote control).
▼	You may move down in an option list
	using ♦ MENU NAVIGATOR ("down" key
	on the remote control).
>	You may move forward to the next menu
	topic using NEXT ► ("right" key on the
	remote control).
0K	You may confirm the displayed value.



Status lights



Signs showing you various settings and information about the status of the receiver.

PRESET	.Tuner is tuned to a preset radio station.
SENS HI	.Tuner is switched to high sensitivity.
SENS LO	.Tuner is switched to low sensitivity.
CINEMA LINK ON	.CINEMA LINK is active
STERE0	.An FM station is being received in stereo.
RD-S	.An RDS station is being received.
EON	.An RDS station with EON is being
	received.
HALL	.HALL effect is on.
TA	.RDS traffic announcement is on
NEWS	.RDS news announcement is on
ANA	.Analogue input is being used for the
	playing source.
NIGHT	.NIGHT MODE is on.
COAX 1	.Coaxial digital input COAX 1 is being
	used for the playing source.
COAX 2	.Coaxial digital input COAX 2 is being
	used for the playing source.
DOWNMIX	Incoming multi channel signals are being
	reduced to fewer output signals
	(depending on the number of speakers).
OPT	Optical digital input OPTICAL IN is being
	used for the playing source (FR 965 only).
OPT 1	Optical digital input OPTICAL 1 IN is
	being used for the playing source
	(FR 975 only).
OPT 2	Optical digital input OPTICAL 2 IN is
	being used for the playing source
	(FR 975 only).
LOUDNESS	.LOUDNESS is switched on.

Information area



This area is used for feedback of the receiver, tuner frequencies, menu options, values and scrolling text messages.

Receiver menu

The receiver is equipped with a menu system. The menu is used for the setup of the receiver. The different menu options are related to each other in a logical way. Let's assume you have no center speaker connected, and therefore switched CENTER SPEAKR to NO. If you try to use VOL CENTER, a message will be scrolled that this is not possible (INSTALL CENTER SPEAKER).

The menu always works the same way. Arrows in the display show you the possible moving directions.

- 1 Press SETUP MENU.
 - → MENU, and * EFFEETS is displayed.
- You can exit the menu at any time by pressing SETUP MENU.
- 2 Turn ♦ MENU NAVIGATOR until the desired option (or a value) is displayed.
- **3** Press NEXT ► to choose the displayed option (or ENTER / OK to confirm a value).
- You can leave any option (values remain unchanged) by pressing

 ✓ PREV. / EXIT.

Menu structure

* EFFECTS

Switches sound effects.

—VIRT SURR

virtual surround: 0...100 %

* / VOL BALANCE

Adjusts the relative volume balance between the connected speakers.

— TEST TONE

Test tone: on/off

-VOL FRONT-L

Volume front left speaker: -50...+50

— ľOL FRONT-R

Volume front right speaker: -50...+50

- VOL CENTER

Volume center speaker: -50...+50

-VOL REAR-L

Volume rear left speaker: -50...+50

−VOL REAR-R

Volume rear right speaker: -50...+50

- LOT 208MOOLES

Volume subwoofer: -50...+50

Note: When using the 6 CHANNEL / DVD INPUT the values below cannot be changed.

* SPERKR SETUP

Selects the used speakers.

— SUBW PRESENT

Subwoofer present: yes/no

-CENTER SPEAKR

Center speaker present: yes/no

— REAR SPEAKER

Rear speakers present: yes/no

* SPERKR SIZES

Chooses the speaker sizes of the used speakers, for optimal sound reproduction. LARGE indicates a speaker which can reproduce frequencies lower than 50 Hz. If SUBW PRESENT is set to NO, FRONT SIZE can only be set to LARGE. If FRONT SIZE is set to SMALL, CENTER SIZE can only be set to SMALL and consequently a subwoofer must be connected.

— FRONT SIZE

Left and right front speakers: small/large

- CENTER SIZE

Center speaker: small/large

— RERR SIZE

Rear speakers: small/large

* SPK DISTANCE

Distance between the usual listening position and the speakers. This defines the delay time for the surround sound.

- DISTANCE L/R

Distance to front speakers: 1...10 m

— DISTANCE ENTR

Distance to center speaker: 1...10 m

— DISTANCE REAR

Distance to rear speakers: 1...10 m

* SELECT INPUT

Assigns the audio input connectors to the different source selections chosen with SOURCE SELECTOR (see "SOURCE SELECTION" for details).

— CORX I

Digital coaxial input 1, COAX 1 IN

— CORX2

Digital coaxial input 2, COAX 2 IN

— □PT (FR 965 only)

Digital optical input, OPTICAL IN

— □PT / (FR 975 only)

Digital optical input, OPTICAL 1 IN

— □PT 2 (FR 975 only)

Digital optical input, OPTICAL 2 IN

— SRT IN

Analogue audio input SAT IN

-VER IN

Analogue audio input VCR IN

— TV IN

Analogue audio input TV IN

— EDR IN

Analogue audio input CDR IN

— [] IN

Analogue audio input CD IN

— 6 CH IN

Analogue audio input 6 CHANNEL / DVD INPUT

* , TUNER

Setup for preset radio stations (see "TUNER" for details).

— RUTO INSTALL

Stores radio stations automatically

— MAN INSTALL

Stores radio stations manually

— GIVE NAME

Allows to assign names to stored radio stations

— RESHUFFLE

Resorts stored radio stations

TV menu

If the receiver is connected to a Philips CINEMA LINK TV via the CINEMA LINK system control bus sockets (see "CONNECTIONS"), you may use the TV to set up the system. An option called RECEIVER will be added to the TV menu.

If CINEMA LINK is on, adjustments on the receiver will be shown on the TV screen for a few seconds. Consult the instruction booklet of your TV on how to use the TV menu. The options offered may vary by TV model.

Switching the connection

- Press CINEMA LINK to switch the connection between the receiver and the TV either on or off.
 - → If the connection is switched on, **CINEMA LINK ON** is displayed.

Note: We recommend switching CINEMA LINK off during recording. This avoids unwanted interruptions due to switching TV functions.

If CINEMA LINK is switched on and the TV menu is active, TV MENU is displayed and the menu and sound functions on the receiver are locked.

SOURCE SELECTOR

When selecting a source by turning SOURCE SELECTOR, the audio and video inputs with the corresponding name are activated. The incoming signal is reproduced by all audio and — if the source includes a video signal — video outputs of the receiver. It is possible to reassign a source selection to other than these standard inputs.

Source selected......Connectors used

DVD	COAX 1 digital audio input and DVD IN video input
PHONO	PHONO IN audio input
TUNER	The tuner part of the receiver is used, all inputs are switched off.
CD	CD IN audio input
CDR/TAPE	CDR/TAPE IN audio input
TV	TV IN audio input and no video input
VCR	VCR IN audio input and VCR IN video input
SAT	SAT IN audio input and SAT IN video input

6 CHANNEL / DVD INPUT selection

The 6 CHANNEL / DVD INPUT connectors can be assigned to any of the available sources (excluding TUNER and PHONO). The assignment can be done via the * SELECT INPUT option in the menu. See below for more details.

Reassigning a source selection

If a source is selected with SOURCE SELECTOR the standard audio input is used. To change this, the source selection must be reassigned to another audio input.

Example: Reassigning [2] from the analogue CD IN audio input to the digital COAX 2 IN audio input.

- 1 Choose * SELEET INPUT from the menu and press NEXT ▶.
- 2 Turn SOURCE SELECTOR to select the source which should be reassigned (e. g. □ □).
 - The name of the source is displayed and the light of the source flashes.
- 3 Turn ♠ MENU NAVIGATOR to select the input connectors which should be used (e. q. EⅡ -- E□RX2).
- 4 Press ENTER / OK to confirm your selection.
 - → STORE II is displayed briefly.
- **5** This source selection is now using the chosen audio input (e. g. \square uses the COAX 2 IN input connectors, **coax 2** lights when switching to CD).

Using one source selection for two or more appliances

You may assign more than one source to a source selection. This can be useful when products are connected one after the other in a chain.

Example: A VCR is connected to the TV but only the TV is connected to the receiver. Both SOURCE SELECTOR settings, TV as well as VCR, have to use the TV input connectors.

- 1 Choose * SELECT INPUT from the menu and press NEXT ▶.
- **2** Turn SOURCE SELECTOR to select the source which should be reassigned (e. g. L'ER).
 - → The name of the source is displayed and the light of the source flashes.
- 3 Turn ♦ MENU NAVIGATOR to select the input connectors which should be used (e. g. VER → TV IN).
- 4 Press ENTER / OK to confirm your selection.
 - → STORE II is displayed briefly.
- **5** This source selection is now using the chosen audio input (e. g. $V \in \mathbb{R}$ uses the TV IN input connectors, $V \in \mathbb{R}$ (TV = IN) is displayed briefly when switching to VCR).

About 6 CHANNEL / DVD INPUT

The 6 CHANNEL / DVD INPUT can be used to connect a device with a built-in multichannel decoder (e.g. Dolby Digital, DTS, etc.) and 6-channel output connector, i. e. a high end DVD player.

When using the 6 CHANNEL / DVD INPUT audio input, the receiver works as a multichannel amplifier. The source reproduces surround sound and sends it to the receiver divided into the necessary channels. Therefore the SURROUND ON/OFF, HALL and SURR. MODE button have no effect since the provided signal is already multichannel.

From a source which is connected to the 6 CHANNEL / DVD INPUT audio input cannot be recorded.

PLAYBACK, RECORDING

Playing a source

- 1 Press POWER / STANDBY to switch on the receiver.
- 2 Turn SOURCE SELECTOR to select a source.
 - The name of the source is displayed.
- You can select the FRONT AV / GAME input by pressing FRONT AV (FR 975 only).
- 3 Start playback of the source as usual.

Adjusting the sound

- Turn VOLUME to adjust the volume.
 - → VOLUME and the volume level between 0 and 50 is displayed.
- 1 Press BASS or TREBLE.
 - → BRSS or TREBLE and the actual value are displayed briefly. Then TURN VOLUME KNOB TO EHRNGE is scrolled
- 2 Turn VOLUME to adjust the bass or treble.
 - → BRSS or TREBLE and the actual value are displayed.

Note: If VOLUME is not turned within 5 seconds or if any other control is used, the bass or treble adjustment is switched off.

• If a subwoofer is connected, press SUBW. ON/OFF to increase the bass performance.

Note: In case of digital surround sound, a subwoofer signal will only be available when supported by the source material.

- Press LOUDNESS to switch loudness either on or off.
 - **►LOUDNESS** is displayed if loudness is on.

Recording from a source

If you wish to record from a source you must select it with SOURCE SELECTOR. The incoming signal is reproduced by all audio and — if the source includes a video signal — video outputs of the receiver. The sound settings do not affect the recording.

- 1 Turn SOURCE SELECTOR (or press FRONT AV FR 975 only) to select the source you want to record from.
 - → The name of the source is displayed.
- **2** Prepare the desired recording appliance. It must be connected to one of the outputs of the receiver.
- **3** Start recording on the recording appliance.
- **4** Start the playback of the source as usual.

Notes: — The audio and video signal of VCR IN is not reproduced by VCR OUT. The same applies to the audio signal of CDR/TAPE IN to CDR/TAPE OUT.

- We recommend not to use the digital output COAX OUT of the receiver to record from an analogue source. Use the analogue output CDR/TAPE instead.
- From a source which is connected to the
 6 CHANNEL / DVD INPUT audio input cannot be recorded.

Recording from the digital output

It is possible to connect a digital recorder to the digital output of the receiver. In this way, all signals coming from the digital inputs can be recorded directly on the connected audio recorder. The receiver will also convert all signals coming from the analogue inputs to the digital output.

The receiver can be used to record digitally a multichannel surround sound audio signal (Dolby Digital, DTS or MPEG) from, for example, DVD to CD-R. The receiver will convert the digital multichannel signal into a stereo signal without loss of relevant sound information.

Notes: — When recording a Dolby Digital, DTS or MPEG signal, each track must be recorded individually.

 Digital recording is not possible when the digital source material is copy-protected.

About surround sound

Surround sound gives you a complete new listening sensation. You will have the feeling of being in the middle of the action, because sound is coming from everywhere around you. Look out for TV broadcasts, audio and video tapes and discs with the DIDOLLY BURNOUS, ALES OF MPEG Multichannel marks which are encoded for multichannel surround sound. You should prefer Dolby Digital, DTS or MPEG Multichannel to get the best out of your receiver.

The FR 965 and FR 975 are able to reproduce DTS surround sound. DTS is a premium multichannel surround sound system available on DVD discs, laserdiscs and audio discs. Consult your software dealer on the availability of DTS software in your region.

Notice that DVD discs do not always carry full multichannel surround. To be sure that a disc is multichannel encoded consult your dealer.

Most ordinary stereo tapes and discs can be replayed using surround sound settings with good results. If the reproduction is distorted in surround mode, switch to normal stereo mode.

The availability of the various surround sound modes described depends on the number of speakers used and the incoming sound information.

Switching surround sound

With surround sound on, you can switch through the different surround modes. Note that the possibilities are related to speaker setup defined in the receivers menu.

If a digital surround signal is detected, the receiver will scroll either <code>BOLBY DISITAL</code>, <code>BTS</code> or <code>MPEG</code>.

- 1 Press SURROUND ON/OFF to switch on the surround sound.
 - → The surround mode in use is scrolled.
- **2** Press SURR. MODE repeatedly to listen to the different surround modes (if available).
 - → The chosen mode and the speakers used are displayed. If the incoming multichannel signals are reduced to fewer output signals, **DOWNMIX** is displayed.
- **3** Press VIRTUAL MODE as often as necessary to switch through the virtual surround sound modes:
 - $1 \times \text{to activate } \exists \mathbb{I} \ \mathsf{SURRUDNI}$
 - $2 \times$ to activate MULTI FRONT
 - $3 \times$ to activate MULTI REAR
 - $4 \times$ to activate NATURAL SURROUNI
 - → A light indicates if a virtual surround sound mode is on.
 •• signs indicate which virtual surround sound mode is active.
- **4** Press SURROUND ON/OFF to switch off the surround sound.
 - → SURROUNI OFF is scrolled.

SURROUND SOUND

Surround sound settings

HALL

The sound reproduction is enhanced and a slight echo is added. This gives the impression of being in a large room. Can only be used in stereo mode.

SURROUNI

The surround mode enables normal surround sound reproduction with 4 or 5 speakers. Depending on the source material, Dolby Surround Pro Logic, Dolby Digital, DTS or MPEG is reproduced.

PRO LOGIC, JOLBY DIGITAL, DTS, MPEG In addition to SURROUND, the surround mode used — depending on the source material — will be displayed. In case of digital surround, the sound format AC-3 (for Dolby Digital), DTS or MPEG (for MPEG 2 Multichannel) will be displayed, followed by the sound channels, available on the source (e. g. DVD).

Example: AE-B B/2. | Dolby Digital, 3 front channels,

2 surround channels and a subwoofer

channel.

MPEG 2/0.0 MPEG Multichannel, stereo sound only.

AC-3 3/ LO Dolby Digital, 3 front channels,

1 (mono) surround channel without

subwoofer signal.

 $\ \ \, \exists / \exists . \ \ \,$ DTS, 3 front channels, 2 surround

channels and a subwoofer channel.

FRONT-3 STERED

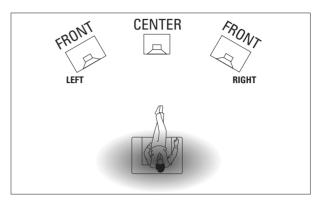
The surround sound is muted. 3 Stereo lets you listen to surround sound without using the surround speakers.

STERED

All sound is reproduced and played through the front left and right speakers. This enables standard stereo reproduction.

Virtual Surround

Your receiver is able to reproduce one or more forms of virtual surround sound. Virtual surround gives a more real life sound impression by creating phantom speakers in addition to or instead of real speakers. The position of the listener influences the surround effect. The area where the effect is best is shown in grey.



The level of virtual surround sound effect can be adjusted in the setup menu. The following surround sound modes are available:

31 SURROUNI

No rear speakers are needed. The sound of the rear channel is simulated by the front speakers. Surround sound is simulated through the front left, right and center speakers.

MULTI FRONT

Phantom speakers are created next to the left and right front speaker.

MULTI REAR

Phantom speakers are created next to the left and right rear speaker.

NATURAL SURROUNI

Phantom speakers are created next to the left and right front and rear speakers.

Note: The availability of MULTI FRONT and MULTI REAR depends on the sound channels on the source material.

NIGHT MODE (only on the remote control)

The loud parts of the sound are lowered and the soft passages are raised. You can enjoy surround sound without disturbing sleeping children or neighbours. Night mode only works with Dolby Digital and MPEG, and only if supported by the source material.

Tuning to radio stations

You can search for radio stations by scanning the frequency band. You can also key in the frequency of a known radio station. If an FM station is being broadcast and received in stereo, **STEREO** is shown.

Searching for radio stations

- 1 Turn SOURCE SELECTOR to select the tuner.
 - → TUNER is displayed.
- 2 Select a waveband by pressing TUNER AM/FM repeatedly.
 - The selected waveband is displayed.
- **3** Keep **◄** or **▶** pressed for approximately 1 second.
 - → SEARCH is displayed and the tuner tunes to a station with sufficient strength.
- **4** Repeat this procedure until you find the desired station.
- To fine tune to a weak transmitter, briefly press

 or

 as
 often as necessary for optimum reception.

Tuning to a radio station by frequency (with the remote control only)

- 1 Press TUNER.
 - → TUNER is displayed.
- 2 Press FR. D..
 - → is displayed.
- **3** Use 1–0 to key in the frequency of a radio station.

Note: Only valid numbers within the frequency range of the tuner can be keyed in.

Switching FM sensitivity

You can switch the tuner to a lower search sensitivity, to search only for stations with a strong signal (FM only).

- 1 Turn SOURCE SELECTOR to select the tuner.
 - →TUNER is displayed.
- 2 Press SENS. on the receiver.
 - → Either **sens HI** or **sens LO** is displayed for 5 seconds.

Note: While searching for radio stations, the actual sensitivity is displayed. In this case, **SENS LO** means the tuner is only looking for radio stations with a strong signal.

Storing radio stations

You may store up to 30 radio stations in the memory. The receiver can select and program radio stations by itself or you can choose them yourself.

Automatic programming

- 1 Choose * TUNER from the menu and press NEXT ▶.
- 2 Choose RUTO INSTALL and press NEXT ▶.
 - → The preset number where programming will start, the waveband and RUTD are displayed.
- **3** Turn TUNER PRESET ♦ to change the preset number where programming should start.
- **4** Use TUNER AM/FM to switch to the desired waveband.
- **5** Press ENTER / OK to start programming.
 - → AUTO INSTALL flashes and all available radio stations are programmed, this may take a few minutes. Programming is done when AUTO INSTALL stops flashing.

Manual programming

- 1 Choose * TUNER from the menu and press NEXT ▶.
- 2 Choose MAN INSTALL and press NEXT ▶.
 - → A preset number, the waveband and the frequency are displayed.
- **3** Turn TUNER PRESET ♦ to change to the preset number where the radio station should be stored.
- **4** Tune to the desired radio station (see "Searching for radio stations").
- **5** Press ENTER / OK to confirm your selection.
 - →STORE I is displayed briefly. The radio station is programmed at the chosen preset number.
- **6** Select and store all desired radio stations this way.

Tuning to stored radio stations

- 1 Turn SOURCE SELECTOR to TUNER to select the tuner.

 → TUNER is displayed.
- 2 Turn TUNER PRESET ♦ to select a preset radio station.

 → PRESET, the preset number and station are displayed.

Resorting stored radio stations

After programming radio stations, you might want to change their sequence. RESHUFFLE allows you to exchange the positions of presets.

- 1 Choose * TUNER from the menu and press NEXT ▶.
- 2 Choose RESHUFFLE and press NEXT ▶.
 - → PRESET, a preset number and station are displayed.
- **3** Turn TUNER PRESET ♦ to select a preset station.
- 4 Press ENTER / OK to confirm the selection.
 - → The selected preset number 5NAP (-) and a second preset number are displayed.
- **5** Turn TUNER PRESET **♦** to select the other preset station.
- **6** Press ENTER / OK to confirm the exchange.
 - → RESHUFFLEI is displayed briefly and these two preset numbers are swapped.

Naming radio stations

It is possible to assign a name to any of the preset radio stations. RDS station names also can be overwritten.

- 1 Choose * TUNER from the menu and press NEXT ▶.
- 2 Choose 5IVE NAME and press NEXT ▶.
 - → A preset radio station is displayed.
- **3** Turn TUNER PRESET ♦ to select the preset to be renamed.
- 4 Press ENTER / OK to confirm your selection.
 - → The existing name or _____ is displayed.
- **5** Turn TUNER PRESET ♦ to select a letter and NEXT ▶ or ◀ PREV. to move to the next or previous position.
- **6** After you have entered the entire name, press ENTER / OK to confirm
 - → STORE I is displayed and the name is stored.

Note: If you want to use the transmitted RDS station name again, simply clear the given name.

Clearing station names

- 1 Use the menu option * TUNER, choose GIVE NAME.
 - →A preset radio station is displayed.
- 2 Turn ♦ MENU NAVIGATOR to select the name to be cleared.
- 3 Press ENTER / OK to confirm your selection.
- **4** Press **◄** PREV. while the first letter is flashing.
 - → [L] is flashing to the left of the station name.
- **5** Press ENTER / OK to clear the station name.
 - Or, if you have changed your mind,
 - press ◀ PREV. to leave the station name as it is.

RDS 🥮

Radio Data System is a service that allows FM stations to send additional information. If you are receiving an RDS station, so and the station name are displayed.

Switching through different RDS information

- Press RADIO TEXT on the receiver repeatedly to switch through the following information (if available):
 - Radio text messages
 - RDS clock
 - Frequency
 - Station name

Note: The time signal broadcasted from certain RDS stations may not always be accurate.

RDS News and Traffic Announcement

It is possible to set up the tuner in such a way that any playback is interrupted by news or traffic information of a chosen RDS station. Announcement functions only work if the necessary RDS signals are being broadcast.

If RDS stations are also carrying an EON signal (**E**nhanced **O**ther **N**etworks), **EON** is displayed. This signal enables the tuner to search not only the chosen RDS station, but the whole EON station network for news and traffic information.

- 1 Tune to the desired RDS station.
- 2 Press NEWS/TA:

Once to display **NEWS**, this switches on the news announcement function.

Twice to display **TA**, this switches on the traffic announcement function.

Three times to display **TA** and **NEWS**, this switches on both announcement functions.

- **3** Select and play any other source as usual.
 - → While news or traffic information is being broadcast the receiver will switch to tuner and **NEWS** or **TA** will flash.
- **4** Press NEWS/TA until the display indication disappears to switch off the function(s).

or

Press NEWS/TA during an announcement to switch off the function(s).

Note: Be sure to switch the news and traffic announcement off during recording, otherwise these announcements also will be recorded.

Receiver Subject to modification without notice. General Power consumption (FR 965)210 W Power consumption (FR 975)255 W Standby power consumption< 2 W Amplifier part (0.7 % THD, 6 Ω , 1 kHz) Output power, stereo mode (FR 965) (DIN).....2 × 60 W Output power, surround mode (FR 965) Center60 W Surround......2 × 60 W Output power, stereo mode (FR 975) (DIN).....2 × 100 W Output power, surround mode (FR 975) Surround.....2 × 100 W Bass±9 dB at 100 Hz Loudness+6 dB at 100 Hz (-30 dB); +3 dB at 10 kHz (-30 dB) Frequency response20-20,000 Hz, ±1 dB S/N ratio≥ 82 dB Stereo separation (1 kHz)≥ 45 dB Crosstalk (1 kHz)≤ -65 dB Inputs Linear inputs 250 mV/47 k Ω Front AV (FR 975 only)250 mV/22 k Ω Digital coaxial75 Ω acc. IEC 958 Digital sampling frequency Digital sampling frequency (FR 975 only).....32 kHz, 44.1 kHz, 48 kHz, 96 kHz **Outputs** Power supply AC outlets (switched)totally max. 100 W Digital output sampling frequencies Analogue inout 48 kHz Digital in 32 kHz.....out 32 kHz Digital in 44.1 kHz.....out 44.1 kHz Digital in 48 kHz.....out 48 kHz Digital in 96 kHz (FR 975 only).....out 48 kHz Speakers \geq 6 Ω

Tuner part	
Wave range	
FM	87.5–108.0 MHz
MW	531-1,602 kHz
LW	153–279 kHz
Sensitivity	
Stereo FM	41 dBf
Mono FM	15 dBf
Total harmonic distortion	
Stereo FM	0.3 %
Mono FM	0.85 %
Frequency response	63-12,500 Hz ±1 dB
S/N ratio	
Stereo FM	55 dB
Mono FM	60 dB
Channel separation	

WARNING

Under no circumstances should you try to repair the set yourself as this will invalidate the guarantee. Do not open the set as there is a risk of electric shock.

If a fault occurs, first check the points listed, before taking the set for repair.

If you are unable to solve a problem by following these hints, consult your dealer or service centre.

PROBLEM	POSSIBLE CAUSE	SOLUTION
No sound	VOLUME is not correctly adjusted.	Adjust the VOLUME.
	Headphones are connected.	Disconnect headphones.
	The wrong source is selected.	Turn SOURCE SELECTOR to select the correct source.
No sound on the	One speaker is wrongly connected.	Connect the speaker properly.
left or right side	A speaker cable is damaged.	Replace the cable.
	Volume balance in the receiver menu is wrongly adjusted.	Adjust VOL $FRONT-L$ and VOL $FRONT-R$ in the receiver menu.
Poor sound or no sound at the center or surround	SURROUND mode is not switched on.	Press SURROUND ON/OFF to switch on the surround sound.
speakers	Surround and/or center speakers are not (properly) connected.	Connect the speakers properly.
	Surround and/or center speakers are switched off in the SPEAKR SETUP menu.	Set speaker present to YE5.
	A speaker cable is damaged.	Replace the cable.
Poor bass sound	Speakers are not in phase.	Connect the coloured (or marked) wires to the coloured terminals and the black (or unmarked) wires to the black terminals.
Bad sound	Badly matching setting for the given type of music or sound.	Correct the sound settings on the receiver.
Surround sound level is too low or too high	The level of the surround sound is not properly adjusted.	Adjust the level of the surround sound on the receiver.
Center sound level is too low or too high	The sound level of the center channel is not properly adjusted.	Adjust the level of the center channel on the receiver.
Only center speaker is heard in Dolby Surround Pro Logic	A mono signal is reproduced.	Choose a different sound source or switch off surround sound.
Bad radio reception, automatic programming does not work properly	Receiver or antenna is positioned near a radiation source such as a TV, CD player, CD recorder, DVD player, etc.	Change the position of the interfering unit or try to switch it off.
No digital recording possible via digital output	The sampling frequency is not accepted by the digital recorder.	Make sure the digital recorder can handle sampling frequencies between 32 kHz and 48 kHz or make the recording via analogue output.
Whole recording appears as one track when recording from DVD disc	The DVD player does not provide track information.	Record each track individually or use the "manual track increment" feature on the recorder.

CABLE BOX						
ABC	0030	0035	0038	0040	0028	0034
7.00	0041,		0000,	0010,	0020,	0001,
Allegro						
Antronix						
Archer			0234,	0824		
Belcor						
Bell & Howell	0041					
Cable Star						
Cabletenna						
Cableview						
Century						
Citizen						
Colour Voice		0058				
Comtronics						
Contec						
Digi Eastern						
Emerson						
Everquest		0067				
Focus		0007				
France Telecom						
GC Electronics		0234				
Garrard						
Gemini		0042				
General Instrument			0038,	0837		
GoldStar						
Goodmind	0824					
Hamlin	0047,	0036,	0286,	0061		
Hitachi						
Hytex						
Jasco						
Jerrold				0038,	0041,	0042,
I to a second		0503,	0837			
Linsay Magnavox		0041				
Memorex		0041				
Movie Time		N183				
NAP		0100				
NSC		0090				
Novaplex						
Oak		0034				
Optimus	0048					
Panasonic		0134,	0027			
Panther						
Paragon		0050		0047	0054	0400
Philips				031/,	0054,	0180
Pioneer		UU5U,	U56U			
Propular Mechanics						
Proscan Pulsar						
Quasar						
RCA						
Radio Shack		NN42	N342	N91 N		
Realistic		0012,	00 12,	0010		
Recoton						
Regal		0047				
Regency						
Rembrandt						
Runco						
SL Marx						

Samsung	0067, 0171
Scientific Atlanta	
Seam	0537
Signal	0042, 0067
Signature	
Sprucer	
Starcom	0030, 0042
Stargate	0067, 0042, 0824
Starquest	
Sylvania	0028
TFC	0337
TV86	0090
Tandy	0285
TeleCaption	0248
Teleview	0067
Texscan	0028
Timeless	0445
Tocom	0039, 0040
Toshiba	
Tusa	0042
Unika	
United Artists	
	0234, 0049, 0083, 0218, 0180
Viewstar	•
Westminster	
	0027, 0552, 0081, 0035, 0042, 0234
Zentek	0427
CD	
ADC	0045

CD	
ADC	0045
Adcom	0261, 0182
Aiwa	0151, 0039, 0184
Akai	0183
Anthem	0924
Audio Alchemy	0221
Audio-Technica	0197
BSR	0272, 0221
Burmester	
California Audio Lab	0056
Carrera	0221
Carver	0184, 0206, 0464
Craig	0642
Crown	0149
Curtis Mathes	0056
DAK	0272
DBX	0281
DKK	0027
Denon	0030, 0061, 0900
Emerson	0182, 0191, 0332, 0496
Fisher	0115, 0206, 0201, 0369
GE	0036
Garrard	0307, 0272, 0420, 0447, 0452
Genexxa	0059, 0191, 0332
GoldStar	0444
Harman/Kardon	0200, 0184, 0453
Hitachi	0059, 0182
JVC	0099, 0682, 0685
Kenwood	0055, 0217, 0708, 0853, 0064
Kodak	0314
Krell	
Kyocera	0045

LXI	0332	Harman/Kardon0209, 0056
Linn		JVC0271, 0300
Luxman		Kenwood0098, 0097, 0260
MCS		Magnavox0056
MGA	0110	Marantz0056, 0036
MTC	0447	Mitsubishi0310
Magnavox		NAD0171
Marantz	0184, 0056, 0207, 0462	Onkyo0162, 0163, 0309
McIntosh		Optimus
Mission		Panasonic0256
Mitsubishi	0110	Philips0056
NAD	0046	Pioneer0054, 0247, 0126
NEC		Proscan0053
NSM		RCA0053
Nakamichi		Revox0217
Nikko		Sansui0036, 0056
Onkyo	0128, 0895	Sharp0258
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Toshiba	0460221, 044400990214, 0063, 019704880642 0224, 0227, 0056031000560103	A-Mark
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