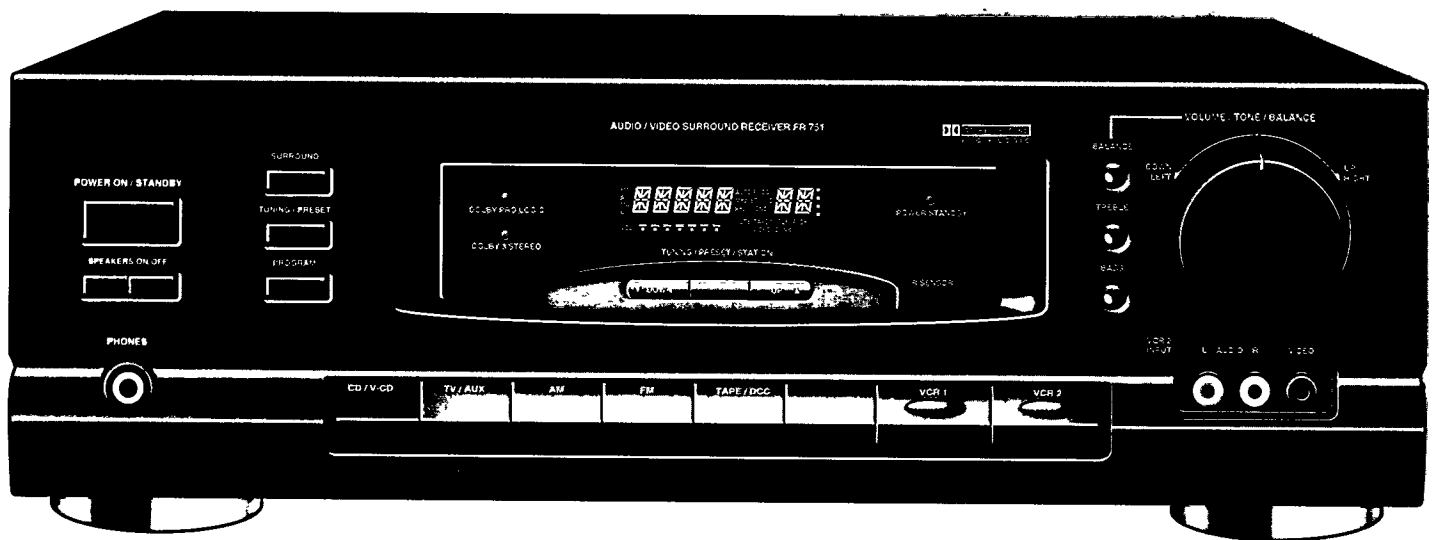


# PHILIPS

## FR 751 Dolby Prologic AV Receiver



Instructions for use  
Mode d'emploi  
Instrucciones de manejo  
Bedienungsanleitung  
Gebruiksaanwijzing  
Istruzioni per l'uso  
Manual de utilização  
Brugsanvisning  
Bruksanvisning  
Käyttöohje  
Οδηγίες χρήσεως



# PHILIPS

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## **(E) España**

### **Declaración de conformidad con normas**

El que suscribe, en nombre y representación de:  
**Business Unit Audio Systems**  
**Philips China Hong Kong Group Company Ltd.**  
 declara, bajo su propia responsabilidad, que el  
 equipo: **Receptor**  
 fabricado por: **BUAS Hong Kong**  
 en: **Far East**  
 marca: **Philips**  
 modelo: **FR 731**  
 objeto de esta declaración, cumple con la normativa siguiente:  
 Reglamento sobre Perturbaciones Radioeléctricas,  
 Real Decreto 138/1989, Anexo V.  
 Hecho en: **Hong Kong, 01-08-1995**  
 Firma:



Nombre: **C.S. Lau**  
 Cargo: **Quality Manager**

## **(MEX) México**

**NOM**

Es necesario que lea cuidadosamente su instructivo de manejo.



**NOM**

Garantía .....página 125

## **(BR) Brasil**

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## **(AUS) Australia**

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## **(NZ) New Zealand**

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## **(N) Norge**

Typeskilt finnes på apparatens bagsiden.

### **Observer**

Nettbryteren POWER er sekundert innkopleet. Den innebygde nettdelen er derfor ikke frakopleet nettet sa lenge apparatet er tilsluttet nettkontakten.



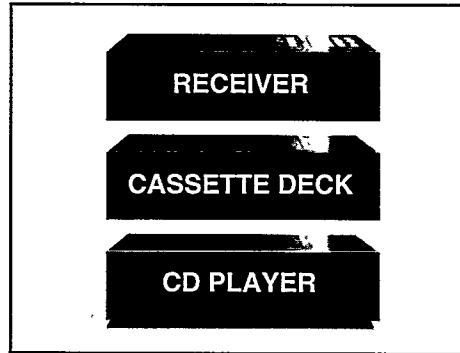
## Thank you for selecting the Philips FR 751 Stereo Receiver.

A part of the state-of-the-art Philips 700 series, the FR 751 receiver is engineered to fulfil the task of generating powerful sound with the highest achievable definition, minimum noise and distortion. The FR 751 is supported by features such as:

- A full-function remote control which can handle your entire PHILIPS 700 series HiFi system, as well as a TV set and a video cassette recorder.
- RC-5 BUS, offering increased ease of operation by extensive communication between the various components of your system.
- High-precision, drift free quartz-locked digital tuning on two wavebands.
- 30 frequencies can be stored in the memory.

## POSITIONING YOUR SYSTEM

The preferred order to stack the units of your system is shown in the diagram below.



Please read this manual carefully **before** you attempt to connect or operate the amplifier.

This manual is divided into seven sections:

- **Installation:** explains how to set up your system - page 3, 4, 5.
- **Functional overview:** explains how to use the major controls - page 6, 7, 8.
- **Amplifier:** gives more detailed information on operation of the amplifier section of your receiver - page 9,10.
- **Tuner:** gives more detailed information on operation of the tuner section of your receiver - page 11.
- **Other possibilities:** explains the sleep-timer function and the VCR dubbing mode - page 12.
- **Additional information:** includes maintenance information and technical data - page 12.
- **Troubleshooting:** gives information on possible causes of problems and how to solve them - page 13.

### WARNING

**Do not connect the set to the mains until all other connections have been made and the mains voltage (indicated on the type plate on the back cover) has been checked.**

When positioning the unit, bear in mind that every receiver produces heat which must be able to dissipate freely. For this reason do not cover any vents and make sure that there is sufficient ventilation around the unit.

## AC POWER SUPPLY

- Check that the mains voltage as shown on the type plate corresponds to your local mains supply. If it does not, consult your dealer or a Philips Authorized Service Center.
- Insert the plug of the mains lead into the wall socket.
- The power supply is now connected.
- To disconnect the set from the mains completely, remove the mains plug from the wall socket.

The type plate is located at the rear of the set.

This product complies with the radio interference requirements of the European Community

### 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 A. If a plug without a fuse is used, the fuse at the distribution board should not be greater than 5 A.

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

#### How to connect a plug

The wires in the mains lead are coloured in accordance 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:

- 1 Connect the blue wire to the terminal marked N or coloured blue or black.
- 2 Connect the brown wire to the terminal marked L or coloured brown or red.
- 3 Do not connect either wire to the earth terminal in the plug, marked E or  $\perp$  or coloured green or green-and-yellow.

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.

If in doubt, consult a qualified electrician.

# INSTALLATION

English

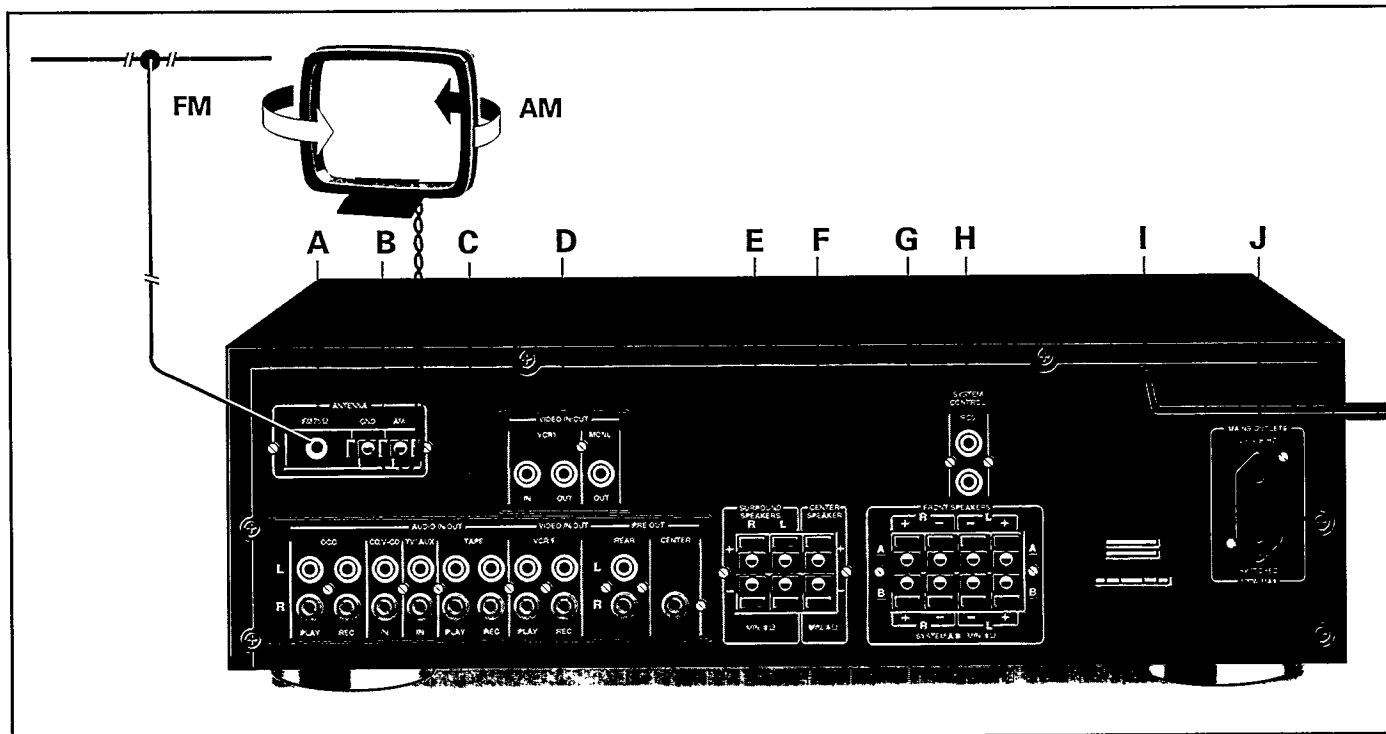
You only have to install your system once. Please make the following connections (whenever applicable).

### NOTES!

- SWITCH OFF THE RECEIVER BEFORE MAKING ANY CONNECTIONS.
- Do not connect the set to the mains when making connections.
- Be sure to connect the white plugs to the L (left) and the red plugs to the R (right) sockets when making connections.

**Important note for connecting equipment that does not have PLAY/REC markings on the input and output sockets:**

FR751	Device to be connected e.g. cassette deck.
PLAY →	PLAY or OUT
REC →	REC or IN



## CONNECTIONS

### A FM (75 Ω)

The FM (75 Ω) socket is used for connection to the Community or Cable Antenna System or to a roof-mounted FM antenna with an impedance of 75 ohms. If none of these are available, you may use the wire supplied for nearby stations (reception could be poor).

### B GND/AM

For AM reception, connect the supplied wires to the GND and AM antenna terminals (one wire to GND and one wire to the AM terminal) and position the antenna for best reception.

**Note:** Do *not* place the AM loop antenna on the unit, as this unit employs a computing device which could cause interference.

**C DCC PLAY/REC** – input and output sockets for connecting a Digital Compact Cassette deck or another digital recording device.

- **CD/V-CD IN** – input sockets for connecting a CD (Compact Disc) player or a Video CD player.

- Connect these sockets to the OUTPUT sockets of the (V) CD player.

- **TV/AUX IN** – input sockets for connecting the sound channel of a TV set or any other source you want to hear; an additional CD player, a cassette deck, a VCR or a turntable with ceramic cartridge etc.

- **TAPE PLAY/REC** – input and output sockets for connecting a cassette deck.

- Connect the PLAY sockets to the LINE OUTPUT sockets of the cassette deck.

These sockets may also be connected to the LINE OUTPUT sockets of an audio processor like an optional graphic equalizer or a Digital Signal Processor.

- Connect the REC sockets to the LINE INPUT sockets of the cassette deck.

These sockets may also be connected to the LINE INPUT sockets of an audio processor like an optional graphic equalizer or a Digital Signal Processor.

- **VCR 1 PLAY/REC** – input sockets for connecting the sound channel of a video recorder and output sockets for extra sound recording equipment (e.g. a HiFi stereo video recorder, or cassette, or tape deck).

- Connect the PLAY sockets to the OUTPUT sockets of the VCR.

- Connect the REC sockets to the INPUT sockets of the VCR.

- **REAR L/R** – output sockets for connecting a separate power amplifier for future upgrading flexibility.

- **CENTER** – output socket for connecting a separate power amplifier for future upgrading flexibility.

### D VIDEO IN/OUT

- **VCR 1 IN/OUT** – input and output sockets for connecting the video input and output of a video recorder

- **MONI/OUT** – output sockets for connecting to the video input of a video TV set.

### E SURROUND SPEAKERS

Terminals for connecting a pair of surround speakers, impedance of 8 Ω each, to obtain a surround sound effect.

**NOTE:** Always connect *two* speakers to these terminals.

## F CENTER SPEAKER

Terminals for connecting a center speaker.

## G FRONT SPEAKERS A/B

Terminals for connecting two pairs of speakers, impedance 6-16 ohms (L = left, R = right).

- One of the wires of a loudspeaker cable is marked with a color or rib. Connect the marked wire to the red terminal, the non-marked wire to the black one.

Make sure that all loudspeakers are connected in the same way.

## H SYSTEM CONTROL

**RC-5** (colored orange) – remote-control input/output socket for connection to the corresponding RC-5 socket of a CD (Compact Disc) player or a remote control receiver. Connect the RC-5 socket to the RC-5 socket of the external equipment that uses the RC-5 remote control system. This socket has been added to maintain compatibility with other Philips Audio equipment.

## POWER

### I MAINS LEAD

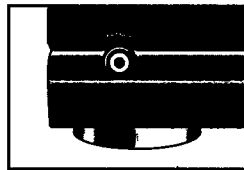
For connecting the set to the mains.

### J MAINS OUTLETS

Switched mains output for connecting mains plugs from various units such as cassette deck, CD player, etc. (maximum capacity is 100 W). Power supplied through this outlet is turned on and off by the POWER button of the receiver.

## CONNECTING HEADPHONES

- Connect headphones with a 6,3 mm jack plug to the PHONES socket.
- Inserting the plug will not disconnect the loudspeakers.



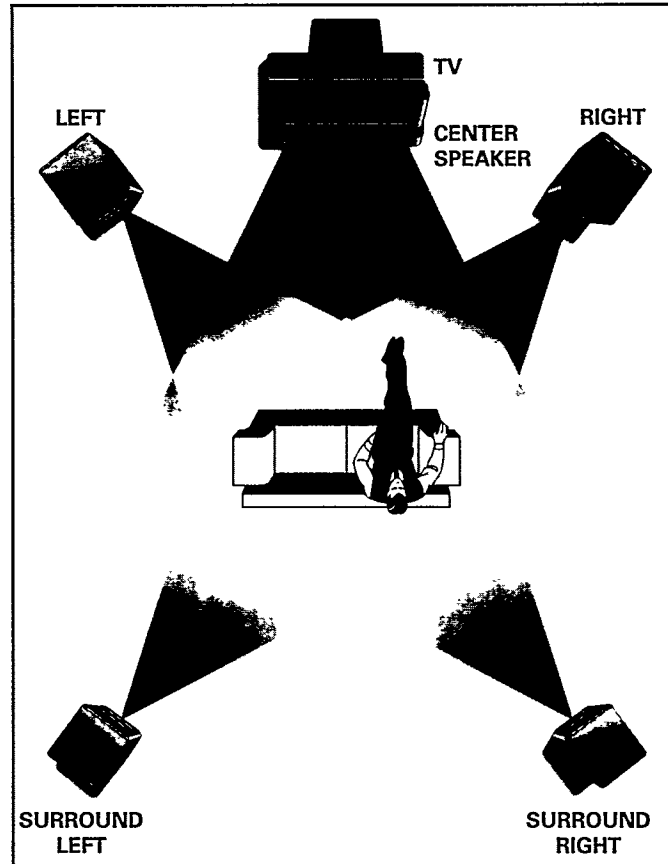
## SPEAKER POSITIONING

To get the best surround sound effect in your home, place the speakers as shown below. The left and right speakers should be about 1 m. (40") from the TV set.

The center speaker should be above or below the TV set.

The rear speakers should be placed at normal listening ear level.

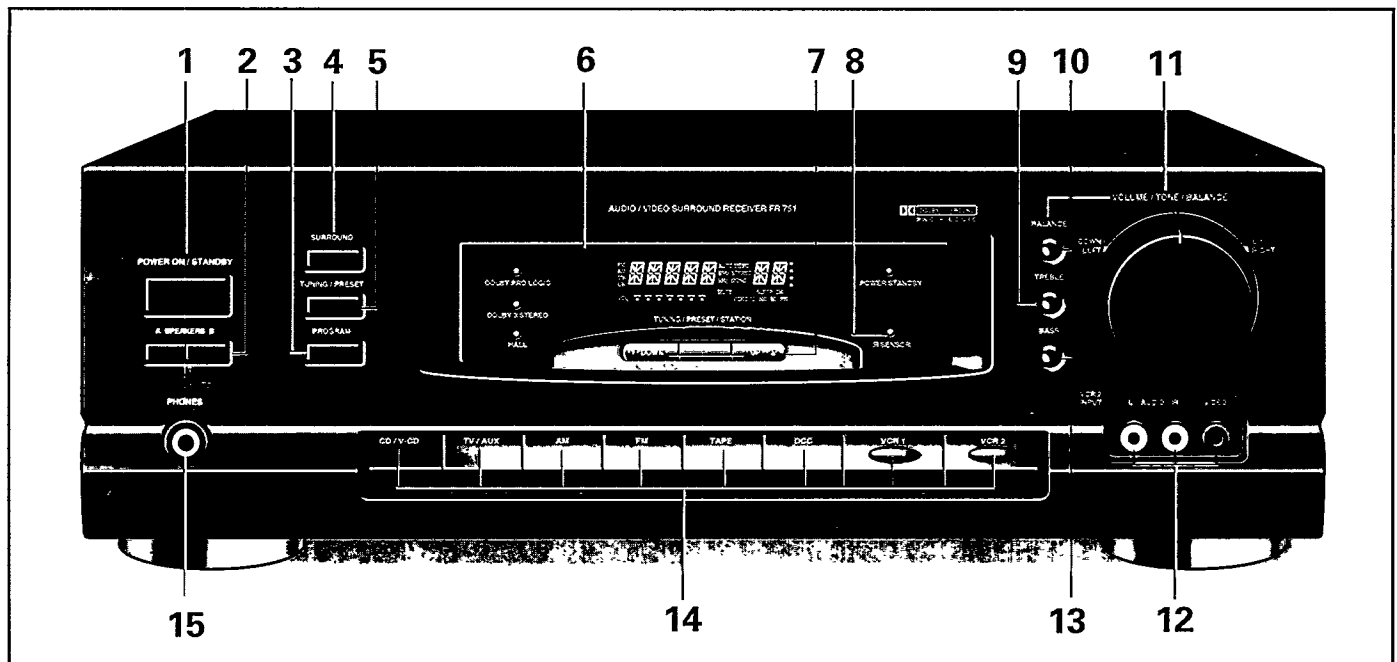
**Note:** to avoid interference with the TV picture, use only magnetically shielded speaker systems.



After making all necessary connections (some may not be applicable for your system set-up), your system is ready for use. In the next chapter we will describe how to operate your FR 751 receiver.

# FUNCTIONAL OVERVIEW

English



## FRONT

### 1 POWER ON/STANDBY

For switching on to standby mode and for switching off.

### 2 A SPEAKERS B

**A** – For switching on and off a pair speakers connected to the SPEAKER A terminals.

**B** – For switching on and off a pair speakers connected to the SPEAKER B terminals.

### 3 PROGRAM

For storing preset stations.

### 4 SURROUND

For selecting the surround modes:

**DOLBY PRO LOGIC, DOLBY 3 STEREO, HALL, OFF.**

Dolby Surround manufactured under license from Dolby Laboratories Licensing Corporation. 'Dolby' and the double D symbol  $\square\square$  are trademarks of Dolby Laboratories Licensing Corporation.

### 5 TUNING/PRESET

For selecting the frequency or channel mode.

### 6 DISPLAY

Informs you about the functioning of the receiver.

### 7 TUNING/PRESET STATION UP/DOWN

- For adjusting the station frequency.
- For selecting the next or previous tuner preset.

### 8 I(nfra) R(ed) SENSOR

Infrared remote control eye for receiving signals from the remote control.

### 9 TREBLE

For adjusting the high tones (use together with the VOLUME/TONE/BALANCE control 11).

### 10 BALANCE

For adjusting the balance of the volume between the left and right channels (use together with the VOLUME/TONE/BALANCE control 11).

### 11 VOLUME/TONE/BALANCE

- **VOLUME** – For adjusting the volume.
- **TONE** – For adjusting the high tones and the bass tones (use together with the TREBLE 9 and BASS 13 controls).
- **BALANCE** – For adjusting the balance of the volume between the left and right channels (use together with BALANCE button 10).

### 12 VCR 2 AUDIO/VIDEO INPUT

Connections for an extra VCR or camcorder (VIDEO) or an extra audio source (AUDIO).

### 13 BASS

For adjusting the bass tones (use together with the VOLUME/TONE/BALANCE control 11).

### 14 SOURCE SELECTION KEYS

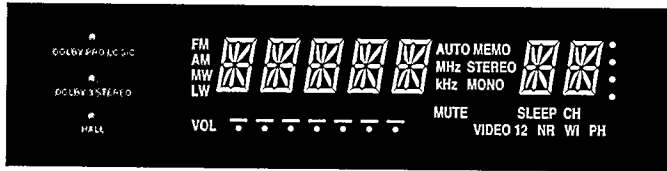
For selecting the required audio or video source.

### 15 PHONES

For connecting headphones.

# FUNCTIONAL OVERVIEW

## DISPLAY



### □□ DOLBY PRO LOGIC, DOLBY 3-STEREO, HALL

Indicate the selected surround mode.

### FM, AM

Indicate the selected waveband. The frequency of the tuned station is indicated in **MHz** (for FM) or in **kHz** (for AM).

000000

Indicates the station frequency.

VOL . . . . .

Show the settings of volume, bass, treble and balance.

### AUTO

Lights up when operating auto tuning or auto presetting.

### MUTE

Lights up when the MUTE button on the remote control is pressed.

### MEMO

Flashes when the memory has been opened to store a preferred station.

### STEREO

Lights up when an FM stereo transmission is received

### MONO

Lights up when the MONO/ST(ereo) button on the remote control has been pressed to receive a mono signal.

### VIDEO 1/VIDEO 2

Light up when the corresponding source is selected.

00

Indicates the the selected channel number, sleep time (in minutes), bass or treble level.

### SLEEP

Lights up when the sleep timer is active.

### CH(annel)

Shows the selected channel.

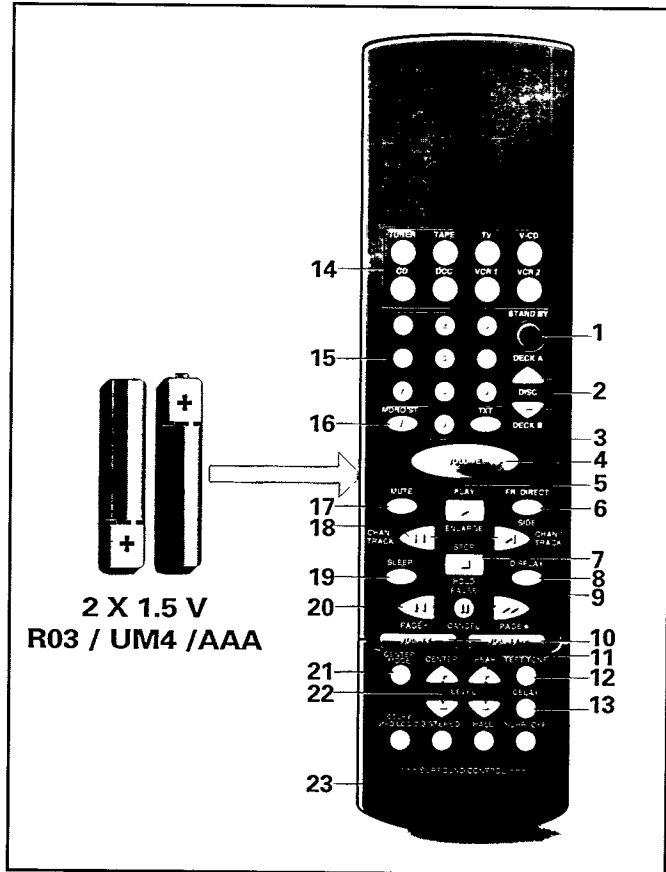
### NR(normal), WI(de band), PH(antom)

Indicate the selected center mode In Dolby Pro Logic or Dolby 3 Stereo mode.

### TEST

Lights up when Test Tone mode is activated.

## REMOTE CONTROL



The remote control (supplied) can be used to operate all units in the system. In addition, it can be used to operate any other equipment that uses the RC-5 remote control system.

### BATTERIES

- Open the battery compartment and insert two batteries as indicated, type R03, UM-4 or AAA-cells .
- Remove the batteries when they have run down or if the remote control will not be used again for a long period.  
**Note** – Do not use rechargeable batteries.

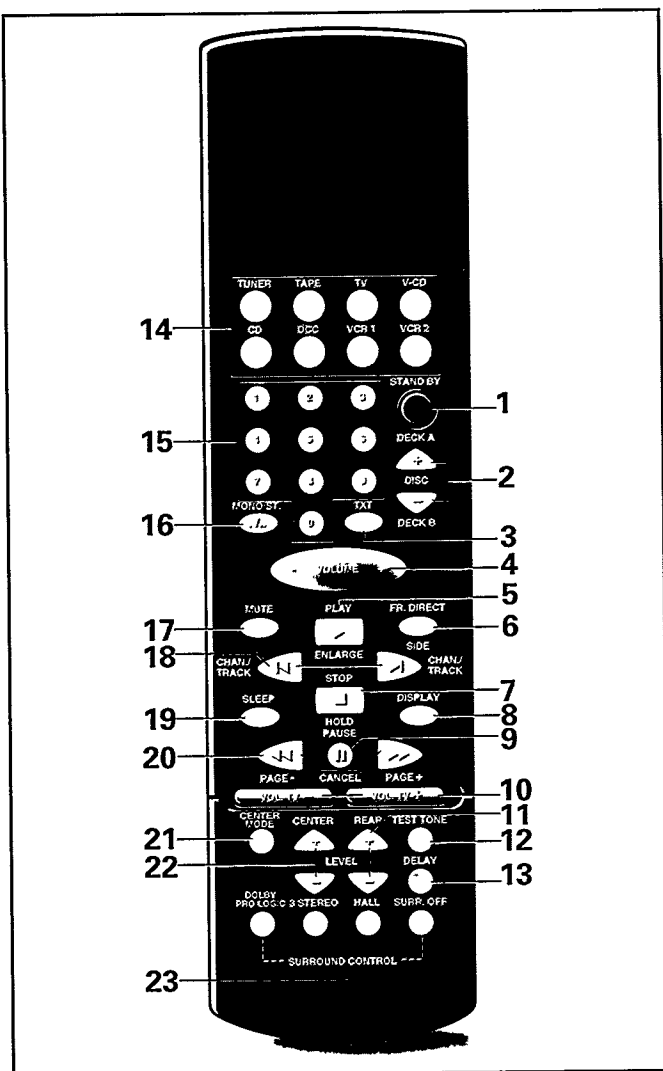
### USING THE REMOTE CONTROL

- First select the source you wish to control by pressing one of the eight source select keys on the remote control (e.g. TAPE, CD, etc.).
- Then, select the desired function.



# FUNCTIONAL OVERVIEW

English



## AMPLIFIER

- 1 **STANDBY** – for switching the complete system to standby (by pressing for longer than approx. 1 second)
- 4 **VOLUME+VOLUME-** – for adjusting the volume
- 14 **Source selectors**
- 17 **MUTE** – for decreasing the volume by 20 dB
- 19 **SLEEP** – for setting a time period after which the system will automatically be switched to standby
- Surround processor**
- 11 **REAR LEVEL +/-** – for adjusting the rear level (only in Dolby Pro Logic mode)
- 12 **TEST TONE** – for checking the output level of the front, center and rear speakers
- 13 **DELAY** – for adjusting the delay time of the rear channel
- 21 **CENTER MODE** – for selecting the desired center mode when in Dolby Pro Logic or Dolby 3 Stereo mode
- 22 **CENTER LEVEL +/-** – for adjusting the center level (only in normal mode or wide mode)
- 23 **SURROUND CONTROL**
  - **PRO LOGIC, 3 STEREO, HALL** – for selecting the different surround modes
  - **SURR(ound) OFF** – for switching the surround mode off

## TUNER

- 1 **STANDBY** – for switching the complete system to standby
- 6 **FR(requency) DIRECT** – for direct tuning to the station frequency
- 15 **0-9 digit keys** – for selecting preset stations in frequency direct mode
- 16 **MONO/ST** – for mono/stereo selection
- 18 **CHANNEL/TRACK** – next ► or previous ◄ preset station
- 20 ◀◀ ▶▶ – for tuning up and down

## TAPE

- 1 **STANDBY** – for switching the complete system to standby
- 2 **DECK A/DECK B** – for selecting deck A or B
- 5 **PLAY ►** – for starting play
- 6 **SIDE** – for selecting tape side A or B
- 7 **STOP ■** – for stopping recording/play
- 9 **PAUSE II** – for interrupting recording/play
- 18 **CHANNEL/TRACK** – next ► or previous ◄ track
- 20 ◀◀ ▶▶ – for winding the tape

## VCR 1 and VCR 2

- 1 **STANDBY** – for switching the complete system to standby
- 5 **PLAY ►** – for starting play
- 7 **STOP ■** – for stopping recording/play
- 9 **PAUSE II** – for interrupting recording/play
- 15 **0-9 digit keys** – for selecting stations
- 18 **CHANNEL/TRACK** – next ► or previous ◄ station
- 20 ◀◀ ▶▶ – for winding the tape

## C D and V-CD

- 1 **STANDBY** – for switching the complete system to standby
- 2 **DISC + -** (CD changer only) – for disc selection
- 5 **PLAY ►** – for starting play
- 7 **STOP ■** – for stopping recording/play/clearing a programme
- 8 **DISPLAY** – for displaying the elapsed playing time and the remaining playing time
- 9 **PAUSE II** – for interrupting recording/play
- 15 **0-9 digit keys** – for track selection
- 18 **CHANNEL/TRACK** – next ► or previous ◄ track
- 20 ◀◀ ▶▶ – for searching up and down

## TV

- 1 **STANDBY** – for switching the complete system to standby
- 3 **TXT** – for switching teletext on and off
- 5 **PLAY ►** – enlarge picture
- 7 **STOP ■** – hold picture
- 8 **DISPLAY** – for selecting on screen display
- 9 **CANCEL** – cancel teletext
- 10 **VOLUME TV** – for adjusting the volume
- 15 **0-9 digit keys** – for selecting preset stations
- 16 **-/-** – 1 or 2 digit entry
- 18 **CHANNEL/TRACK** – next ► or previous ◄ channel
- 20 **PAGE + /PAGE -** – next or previous teletext page

## DCC

- 1 **STANDBY** – for switching the complete system to standby
- 2 **DECK A/DECK B** – for selecting deck A or B
- 5 **PLAY ►** – for starting play
- 6 **SIDE** – for selecting the tape travel direction
- 7 **STOP ■** – for stopping recording/play
- 8 **DISPLAY** – for displaying character information (e.g. title names etc.)
- 9 **PAUSE II** – for interrupting recording/play
- 15 **0-9 digit keys** – for track selection
- 18 **CHANNEL/TRACK** – next ► or previous ◄ track
- 20 ◀◀ ▶▶ – for winding the tape

## POWER STANDBY/OFF

- Press the POWER/STANDBY button to switch on the power.
- The receiver will enter the standby mode and the standby indicator will light up. When the receiver is switched to active mode (as described below in the chapters 'Wake-up from standby' and 'SOURCE SELECTION'), the respective indicators light up and the standby indicator is switched off. When a remote control command is received, this standby indicator flashes.
- To switch the receiver off press the POWER/STANDBY button again.

## STANDBY

Switching the FR 751 or your whole system to standby can only be done via the remote control.

### Switching a single source (e.g. CD) to standby

- Select the source using the source keys on the remote control.
- Press the STANDBY key briefly.
- The selected source will be switched to standby.

### Switching the whole system to standby

- Keep the STANDBY key pressed for more than 1 second.
  - The whole system will be switched to standby.
  - All light indicators will be switched off with the exception of the standby indicator on the receiver.
- NOTE:** If the whole system is switched to standby when a recording is active, the recording (or CD-dubbing) will be cancelled.

### Wake-up from standby

- Press POWER/STANDBY on the receiver or select a source with your remote control.
- The system will switch from standby to the operating mode.

## SOUND CONTROL

### Volume

- Adjust the sound volume with the VOLUME/TONE/BALANCE control.

### Balance

- Press BALANCE.
- BAL(ance) lights up.
- Adjust the stereo balance between the left and the right channels with the VOLUME/TONE/BALANCE control.

### Treble

- Press TREBLE.
- TRE(ble) lights up, together with the set level.
- Adjust the HIGH tones with with the VOLUME/TONE/BALANCE control; from -6 to 6.

### Bass

- Press BASS.
- BASS lights up, together with the set level.
- Adjust the bass tones with with the VOLUME/TONE/BALANCE control; from -6 to 6.

**WARNING:** Extreme settings at high volume may damage your loudspeakers!

- Use the SURROUND keys to select the desired sound effect: **□□ DOLBY PRO LOGIC, DOLBY 3 STEREO, HALL, OFF.** Press the OFF key on the remote control to switch the surround mode off.
- Press MUTE on the remote control if you want to decrease the volume by 20 dB.
- Press MONO/ST(ereo) on the remote control if you prefer mono reception.

**Note:** The MUTE function has no influence in TV/AUX mode.

## SOURCE SELECTION

- When the receiver is switched on, it will be switched directly to operating mode as soon as a source is selected.
- The receiver and the selected source will become active.
- The selected source will be indicated on the display.
- You can also switch both the source and the receiver to the active mode by simply pressing PLAY on CD or Deck or one of the tuner preset keys.

### Source selection via the remote-control handset

- Press (**for more than 1 second**) the respective source key on the remote control.
- The selected source and the receiver will become active.

## SURROUND MODE

With the SURROUND key you can select 3 different surround modes: **□□ DOLBY PRO LOGIC, DOLBY 3-STEREO, HALL, OFF.**

**DOLBY PRO LOGIC:** Choose this setting for playback of movies and music (especially Laser Discs, videocassettes and TV broadcasts with DOLBY SURROUND sound). Not only does Dolby Pro Logic surround you with sound, it also gives you a clear perception of the position and direction of the sound. Make sure your 'Speaker Positioning' is correct (see 'INSTALLATION').

With a great number of recently made movies, the sound track is specially encoded with the Dolby Surround mode carrying the **□□ DOLBY STEREO** or **□□ DOLBY SURROUND** trademark. The front speakers provide the dialogue and the normal stereo effect, while the rear speakers reproduce the surround signals. This position provides excellent results when watching television programs, video software, video discs or video tapes of stereo television broadcasts encoded with Dolby Surround

**DOLBY 3-STEREO:** Choose this setting for playback of movies and music (especially Laser Discs, videocassettes and TV broadcasts with DOLBY SURROUND sound), when not using rear speakers. You get a clear perception of the position and direction of the sound.

DOLBY 3-STEREO combines the front and rear signals so that you can enjoy a regenerated sound field which has comparatively more presence and a more expansive feeling from the three front channels (front left, front right and center speakers) than that of ordinary stereo regeneration.

**HALL:** With this setting, you get the spacious effect of a concert hall when playing stereo (but not mono) source material.

**OFF:** On the remote control switches off the center and rear speakers for normal stereo operation.

**Note:** Dolby Pro Logic and Dolby 3-Stereo will not work properly if the signal passes through a graphic equalizer. Please refer to your equalizer user manual for guidance on switching off (or defeating) the equalizer.

When you select a SURROUND MODE the red indicator above the respective name lights up. The SURROUND MODE is switched off when you press the OFF key (on the remote control).

Each mode has programmed values for center-mode, center and rear levels and/or for rear channel time delay (as appropriate).

With the CENTER MODE, LEVEL and DELAY keys you can set other values. These values will then be kept in the memory until they are changed again. Increasing the rear delay time expands the perceived listening area, and vice versa.

The various values that can be adapted in the different surround modes are described next:

### DOLBY PRO LOGIC:

- Use the SURROUND CONTROL key on the remote control to select Dolby Pro Logic.
- Press the CENTER MODE key on the remote control to select the required center channel mode:
  - NR**(normal) – If the center speaker has low (20W) rating.
  - WI**(ide band) – If the center speaker has high (same as left and right speakers) rating.
  - PH**(antom) – If no center speaker is installed.
- Use the REAR LEVEL –, + keys on the remote control to adjust the rear level (related to the front level).
  - SUR(round) lights up on the display.
  - The level will be indicated on the VOL indicator on the display: VOL • • • • •
- Use the CENTER LEVEL –, + keys on the remote control to adjust the center level.
  - CEN(ter) lights up on the display.
  - The level will be indicated on the VOL indicator on the display: VOL • • • • •
- Use the DELAY key on the remote control to adjust the delay time of the rear channel.
  - The delay times will be shown on the display: *dEL 15*, *dEL 20*, *dEL 25* or *dEL 30 seconds*.

### DOLBY 3-STEREO

- Use the SURROUND key to select Dolby 3-Stereo.
  - CENTER MODE: in Dolby 3-Stereo mode you can only select **NR**(normal) and **WI**(ide band), see above.
  - DELAY: adjusting the delay time of the rear channel is not possible in Dolby 3-Stereo mode.
  - REAR LEVEL: adjusting the rear level is not possible in Dolby 3-Stereo mode.
  - CENTER LEVEL: use the CENTER LEVEL –, + keys to adjust the center level as described above.

### HALL

- Use the SURROUND key to select HALL.
  - CENTER MODE: selecting the required center channel mode is not possible in HALL mode.
  - DELAY: use the DELAY key on the remote control to adjust the delay time of the rear channel as described above.
  - REAR LEVEL: use the REAR LEVEL –, + keys to adjust the rear level as described above.
  - CENTER LEVEL: adjusting the center level is not possible in HALL mode.

### TEST TONE

Use the remote control TEST TONE function to obtain the correct balance between the levels of the left, right, center and rear speakers in the DOLBY PRO LOGIC and DOLBY 3-STEREO mode.

### DOLBY PRO LOGIC:

- Press the TEST TONE key on your remote control.
- You will hear a test tone from the left (*F-L*), center (*CEN*), right (*FR*) and rear (*SUR*) speakers in turn, in a repeating cycle.
- While sitting in the usual listening position, adjust the level of each speaker until they all sound equally loud. Use the VOLUME/TONE/BALANCE control to adjust the speaker levels.
  - The levels will be indicated on the VOL indicator on the display: VOL • • • • •
- When you are satisfied with the levels, press the TEST TONE key on your remote control again to turn off the test tone.

### DOLBY 3-STEREO

In Dolby 3-Stereo mode you can adjust only the levels of the left, right and center speakers.

## GENERAL

- Select the waveband by pressing the FM or the AM key, or the TUNER button on the remote control.
- Tune to a radio station or select a preset number.  
The correct procedure is described in the following chapters.
  - While tuning, the audio signal will be muted to eliminate interfering background noises. When a station is found, the audio signal will be set to normal volume again.
  - When STEREO appears in the display, you are receiving an FM-stereo transmission.
- A disturbing noise, due to a weak FM-stereo signal, can be suppressed by pressing MONO/ST(ereo) on the remote control.
  - MONO will appear on the display and you will hear the FM program in mono. A stereo station can be stored in mono or in stereo.

## TUNING

### AUTOMATIC TUNING

- Press TUNING/PRESET to switch off the CH(annel) indicator.
- Press TUNING/PRESET/STATION UP or DOWN for more than 1 second.
  - AUTO appears on the display. The tuner will now search until a station of sufficient strength has been found. The display shows the tuned frequency.
- If the station found is not the desired one, simply repeat this operation.
- Weak stations are skipped during automatic tuning. They can be tuned to manually.

### MANUAL TUNING

Manual tuning is useful when you already know the frequency of the desired transmitter (e.g. from your programme guide).

#### With the TUNING/PRESET/STATION UP/DOWN keys

- Press TUNING/PRESET to switch off the CH(annel) indicator.
- Briefly press TUNING/PRESET/STATION UP or DOWN until the right frequency has been reached.

BAND	USA/CANADA	EUROPE/AUSTRALIA
FM	100 KHz	50 KHz
AM	10 KHz	9 KHz

#### With the digit keys on the remote control

- Press the FR(equency) DIRECT key on the remote control.
  - --- -- will appear on the display.
- Enter the desired frequency with the digit keys on the remote control.
  - As soon as you have entered the last digit, the tuner selects this frequency and the station becomes audible.
  - Entry of the tuning frequency will automatically be interrupted if no key is pressed for 90 seconds, or if a key other than the digit keys is pressed. The receiver will return to the previous frequency.

## PRESET STATIONS

You can store 30 preferred stations in the memory of the tuner. This enables you to find your favorite stations quickly and easily.

### Programming of preset stations

- Tune either automatically or manually to the frequency to be stored (as described under TUNING).
  - If the display shows no preset number, the frequency shown has not yet been stored in the memory.
- Press the PROGRAM to enter the frequency in the memory.
  - MEMO starts flashing for about 5 seconds and CH(annel) lights up.
- Select the preset number using TUNING/PRESET/STATION UP or DOWN *within the time* the MEMO indication flashes.
- Press PROGRAM again.
  - The preset station has now been stored in the memory. A stored frequency is erased from the memory by storing another frequency in its place.

### Tuning to preset stations

- Press TUNING/PRESET to switch on the CH(annel) indicator.
- Select the desired preset number with TUNING/PRESET/STATION UP or DOWN.
  - You will now receive the selected station and the display will show the preset number, the tuned frequency.

**SLEEP**

The sleep timer can be used to set a time period after which you wish your system to be switched to standby mode.

- Press the SLEEP key on the remote control.
- The display shows the indication SLEEP 10.
- This means that the system will be switched to standby after 10 minutes.
- Select the required sleep time by pressing SLEEP: 10, 20, 30, 60 or 90 minutes.

**Notes:**

- During an active sleep timer period, you can reset the time to SLEEP 10 again by pressing the SLEEP key.
- A sleep timer period will be cancelled when you switch your system to standby (with the standby key on your remote control).

**DUBBING FROM VCR2 TO VCR1**

- Select VCR 2 as program source to be recorded.
- Start recording on the VCR connected to VCR 1.
- Start playback on the VCR connected to VCR 2.
- The audio and video signals from VCR 2 will be dubbed onto the tape in VCR 1.

When dubbing from VCR2 to VCR1, you can replace the audio signal from VCR2 with the signal from an audio source, e.g. a CD player.

- *First* select VCR 2 as program source to be recorded.
- *Then* select the required audio source.
- Start recording on the VCR connected to VCR 1.
- Start playback on the audio source and on the VCR connected to VCR 2.
- You can now watch the picture from VCR2 on your TV and listen to the sound from the audio source while recording.

**TECHNICAL SPECIFICATIONS****AMPLIFIER SECTION**

- Output power: (left/right) ..... IEC (D<0.7%) 63 Hz - 12.5 kHz 2 x 85 W (8 Ω)
- Surround mode:
  - front ..... 2 x 50 W
  - rear ..... 25 W
  - center ..... 50 W
- Music Power (1 kHz, 8 Ω) ..... 2 x 180 W
- Total harmonic distortion: ..... ≤ 0.5% at 1 kHz
- Intermodulation distortion: ..... ≤ 0.5%
- Power bandwidth: ..... 10 - 48,000 Hz (at -3dB)
- Frequency response:
  - linear inputs ..... 20 - 25,000 Hz, + 1 dB
- Signal-to-Noise Ratio:
  - linear ..... ≥ 90 dB
- Stereo separation: ..... ≥ 45 dB
- Crosstalk ..... ≥ 80 dB
- Damping factor ..... ≥ 40 at 8 Ω
- Bass/Treble control ..... +/- 10 dB at 100 Hz/10 kHz

**INPUT SENSITIVITY**

Linear inputs: ..... 200 mV at 22 kΩ (rated output)

**OUTPUTS**

Recording: ..... 200 mV at 2.5 kΩ  
Headphones: ..... 8 - 1,000 Ω  
Loudspeakers: ..... 8-16 Ω

**POWER SUPPLY**

Mains voltages: ..... acc. to typeplate  
Power consumption: ..... 150 W  
Mains outlets: ..... 100 W max.

**TUNER**

- Wave range FM ..... 87.5 - 108 MHz
- Sensitivity ..... 15.9 dBf
- Adjacent Channel Selectivity ..... 55 dB (400 kHz)
- Total harmonic distortion (mono/stereo): ..... 0.3%/0.5%
- Frequency response ..... 30 - 15,000 Hz +/- 1.5 dB
- S/N ratio: mono/stereo ..... 70/65 dB
- Channel separation ..... 40 dB at 1 kHz
- IF-suppression ..... 70 dB
- Image rejection ..... 45 dB
- Wave range AM ..... 530 - 1,710 kHz
- Sensitivity 26 dB S/N ..... 1500 μV/m

**REMOTE CONTROL SYSTEM**

- + RC-5 BUS ..... 2x

**CABINET**

- Dimensions (w x h x d) ..... 435 x 125 x 350 mm approx
- Weight ..... 22 lbs (10 kg). approx

**ACCESSORIES**

- Remote control unit ..... 1x
- Battery AAA/LR03/UM4 ..... 2x
- AM Loop Antenna ..... 1x
- FM T-bar Antenna ..... 1x

*Subject to modification*

**MAINTENANCE**

- Do not leave the unit for any length of time in direct sunlight or other places where high temperatures can occur, such as in the vicinity of a heating apparatus.
- Do not expose the equipment to humidity or rain.
- A chamois leather cloth, slightly moistened with water is sufficient for cleaning the cabinet.
- Do not use cleaning agents containing alcohol, spirits, ammonia or abrasives.

If a fault occurs, run through the points listed below before taking your receiver for repair.  
If the fault remains, try to clear it by **switching the receiver off and on again**. If this also fails to help, consult your dealer.  
**Under no circumstances should you repair the receiver yourself as this will invalidate the guarantee!**

## PROBLEM

- POSSIBLE CAUSE
- REMEDY

### NO POWER

- The mains lead is disconnected.
- Connect the lead securely.
- Poor connection at the wall socket or the wall socket is inactive.
- Check the wall socket using a lamp or another appliance.

### NO SOUND FROM THE FRONT SPEAKERS

- Speaker cables are disconnected.
- Check the speaker connections.
- Volume is too low.
- Adjust the volume.
- Front speakers are not switched on.
- Press the A SPEAKERS B button to switch on the front speakers.

### NO SOUND FROM THE REAR SPEAKERS

- Surround mode is switched off.
- Select a surround mode.
- Volume and rear level are too low.
- Adjust the volume.
- A monaural source is used.
- Select a stereo or surround source.
- Dolby 3 Stereo mode is selected.
- Switch off Dolby 3 Stereo mode.

### NO SOUND FROM THE CENTER SPEAKER

- Dolby Pro Logic or Dolby 3-Stereo mode is not selected.
- Select Dolby Pro Logic or Dolby 3-Stereo mode.
- Volume and center level are too low.
- Adjust the volume and center level.
- The center mode is set to phantom mode.
- Set the center mode to normal or wide.

### NO SOUND IS HEARD EVEN WHEN A SOURCE SELECTION BUTTON IS PRESSED

- The MUTE button is pressed.
- Press MUTE again to cancel the MUTE function.
- Volume is too low.
- Adjust the volume.
- Connections between the components are incorrect.
- Make connections correctly.

### THE REMOTE CONTROL UNIT DOES NOT OPERATE

- No batteries loaded or exhausted batteries.
- Replace the batteries.
- The IR sensor is obstructed.
- Remove the obstacle.

### STATIONS CANNOT BE RECEIVED

- No antenna connected.
- Connect an antenna.
- The desired station frequency is not tuned in.
- Tune in the desired station frequency.

### PRESET STATIONS CANNOT BE RECEIVED

- An incorrect station frequency has been memorized.
- Memorize the correct station frequency.
- The memorized stations are cleared.
- Memorize the stations again.

### POOR FM RECEPTION

- No antenna connected.
- Connect an antenna.
- The antenna is not positioned for the best reception.
- Change the position of the antenna.

### CONTINUOUS HISSING NOISE DURING FM RECEPTION, ESPECIALLY WHEN A STEREO BROADCAST IS RECEIVED

- Weak signal.
- Change the position of the antenna.
- Install an outdoor antenna. Use an antenna with 3, 4 or 5 elements if the broadcast station is far away.

### CONTINUOUS OR INTERMITTENT HISSING NOISE DURING AM RECEPTION, ESPECIALLY AT NIGHT

- Noise is caused by motors, fluorescent lamps or lightning etc.
- Keep the receiver away from noise sources.
- Install an outdoor AM antenna.

### A HUM CAN BE HEARD DURING AM RECEPTION

- The mains lead may be too close to the AM loop antenna or the antenna wire.
- Position the mains lead away from the antenna wire and the AM loop antenna.
- Adjust the position of the AM loop antenna.

### OTHER SYSTEM COMPONENTS DO NOT REACT TO REMOTE CONTROL COMMANDS

- RC-5 connections are not made properly.
- Make proper RC-5 connections.

**GUARANTEE FOR AUSTRALIA**

The benefits given to the purchaser by this warranty are in addition to all other rights and remedies, which, under the Trade Practices Act or other Commonwealth or State law, the purchaser or owner has in respect of the product.

The Philips product carries the following warranties:

- C-series HiFi-systems 12 months.
- Compact Disc Players: 12 months.
- Home Audio Systems: 6 months.
- Clock radios, portable radios, cassette recorders, cassette players and radio recorders: 90 days.

Any defect in materials or workmanship occurring within the specified period from the date of delivery, will be rectified free of charge by the retailer from whom this product was purchased.

**Note:** Please retain your purchase docket to assist prompt service.

**Conditions of this warranty**

1. All claims for warranty service must be made to the retailer from whom this product was purchased. All transport charges incurred in connection with warranty service or replacement will be paid by the purchaser.
2. These warranties do not cover batteries and extend only to defects in materials or workmanship occurring under normal use of the product where operated in accordance with our instructions.

**Philips**  
**Consumer Products Division**  
**Technology Park**  
**Figtree Drive, Australia Centre**  
**Homebush 2140**  
**New South Wales**

**GUARANTEE FOR NEW ZEALAND**

Thank-you for purchasing this quality Philips product. Philips New Zealand Ltd guarantees this product against defective components and faulty workmanship for a period of 12 months. Any defect in materials or workmanship occurring within 12 months from the date of purchase subject to the following conditions will be rectified free of charge by the retailer from whom this product was purchased.

**Conditions**

1. The product must have been purchased in New Zealand. As proof of purchase, retain the original sales docket indicating the date of purchase.
2. The guarantee applies only to faults caused by defective components, or faulty workmanship on the part of the manufacturer.
3. The guarantee does not cover failures caused by misuse, neglect, normal wear and tear, accidental breakage, use on the incorrect voltage, use contrary to operating instructions, or unauthorised modification to the product or repair by an unauthorised technician.
4. Reasonable evidence (in the form of a sales docket) must be supplied to indicate that the product was purchased no more than 12 months prior to the date of your claim.
5. In the event of a failure, Philips shall be under no liability for any injury, or any loss or damage caused to property or products other than the product under guarantee.

This guarantee does not prejudice your rights under common law and statute, and is in addition to the normal responsibilities of the retailer and Philips.

**How to claim**

Should your Philips product fail within the guarantee period, please return it to the retailer from whom it was purchased. In most cases the retailer will be able to satisfactorily repair or replace the product.

However, should the retailer not be able to conclude the matter satisfactorily, or if you have other difficulties claiming under this guarantee, please contact.

**The Guarantee Controller**  
**Philips New Zealand Ltd.**

✉ P.O. Box 41.021

**Auckland**

☎ (09) 84 94 160

fax ☎ (09) 84 97 858

## **GARANTÍA PARA MÉXICO**

Este aparato está fabricado con materiales de alta calidad y ha sido cuidadosamente verificado. Philips, por lo tanto, da a usted una garantía de 12 meses a partir de su fecha de compra.

La garantía ampara la reposición de las piezas defectuosas debidas a fallas en su montaje o en los materiales, incluyendo la mano de obra necesaria para su reemplazo en nuestras Succursales o talleres autorizados.

En caso de fallas en su aparato le rogamos se sirva poner en contacto con su distribuidor.

Esta garantía no cubrirá las averías que resulten como consecuencia de una instalación incorrecta del aparato, manifiesto maltrato o uso inadecuado del mismo.

Philips se obliga a reparar y devolver a usted su aparato en un plazo no mayor de 30 días hábiles contados a partir de la fecha de haber ingresado su aparato a uno de nuestros talleres.

Con la presentación de la factura o remisión de su aparato podrá hacer efectiva la garantía.

Si usted tiene alguna duda o pregunta que no le pueda solucionar su distribuidor, por favor ponerse en contacto con:

**Oficinas Centrales de Servicio,**  
**Av. Coyoacán No. 1051,**  
**Col. del Valle,**  
**03100 México, D.F.**  
**☎ 5-75-20-22 o 5-75-01-00**

## **CERTIFICADO DE GARANTIA INTERNACIONAL**

Este aparelho é garantido pela Philips da Amazônia Indústria Eletrônica LTDA, por um período superior ao estabelecido por lei. Porém, para que a garantia tenha validade, é imprescindível que, além deste certificado, seja apresentada a nota fiscal de compra do produto.

1. Philips da Amazônia Indústria Eletrônica LTDA assegura ao proprietário consumidor deste aparelho a garantia de 365 dias (90 dias legal e 275 dias adicional) **contados a partir da data de entrega do produto, conforme expresso na nota fiscal de compra**, que passa a fazer parte deste certificado.
2. Esta garantia perderá sua validade se:
  - a. O defeito apresentado for ocasionado por uso indevido ou em desacordo com o seu manual de instruções.
  - b. O produto for alterado, violado ou consertado por pessoa não autorizada pela Philips.
  - c. O produto for ligado a fonte de energia (rede elétrica, pilhas, bateria, etc.) de características diferentes das recomendadas no manual de instruções e/ou no produto.
  - d. O número de série que identifica o produto estiver de alguma forma adulterado ou rasurado.
3. Estão excluídos desta garantia defeitos decorrentes do descumprimento do manual de instruções do produto, de casos fortuitos ou de força maior, bem como aqueles causados por agentes da natureza e acidentes.
4. Excluem-se igualmente desta garantia defeitos decorrentes do uso dos produtos, em serviços não doméstico/residencial regular ou em desacordo com o uso recomendado.
5. Nos municípios onde não exista oficina autorizada de serviço Philips, as despesas de transporte do aparelho e/ou técnico autorizado, correm por conta do sr. consumidor requerente do serviço.
6. Este produto tem **garantia internacional**. O serviço técnico (durante ou após a garantia) é disponível em todos os países onde este produto é oficialmente distribuído pela Philips. Nos países onde a Philips não distribui este produto, o serviço técnico da Philips local poderá prestar tal serviço, contudo poderá ocorrer algum atraso no prazo de atendimento se a devida peça de reposição e o manual técnico não forem prontamente disponíveis.
7. A garantia não será válida se o produto necessitar de modificações ou adaptações para habilitá-lo a operar em qualquer outro país que não aquele para o qual foi designado, fabricado, aprovado e/ou autorizado, ou ter sofrido qualquer dano decorrente deste tipo de modificação.

### **Philips da Amazônia Indústria Eletrônica LTDA.**

Dentro do Brasil, para informações adicionais sobre o produto ou para eventual necessidade de utilização da rede de oficinas autorizadas, ligue para o centro de informações ao consumidor, **tel 0800-123123** (discagem direta gratuita) ou escreva para a:

**caixa postal 21462 - CEP 04698-970**  
**São Paulo - Sp.**

Horário de atendimento: de segunda à sexta-feira, das 08:00 às 19:00 h; aos sábados das 08:00 às 13:00 h.

Para atendimento fora do Brasil contate a Philips local ou a:

**Philips Consumer Service**  
**Beukenlaan 2**  
**5651 CD Eindhoven,**  
**The Netherlands**







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