

Englishpage **3**

Françaispage **14**

Españolpágina **25**

中文第 **36** 頁

中文第 **47** 頁

(AUS) Australia

Guarantee.....page 58

(NZ) New Zealand

Guarantee.....page 58

(BR) Brasil

Garantíapágina 59

(MEX) México **NOM**

Es necesario que lea cuidadosamente su instructivo de manejo.



NOM

Garantíapágina 59

Thank you for selecting the Philips FR 732 Stereo Receiver.

A part of the state-of-the-art Philips 700 series, the FR 732 receiver is engineered to fulfil the task of generating powerful sound with the highest achievable definition, minimum noise and distortion. The FR 732 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.

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

This manual is divided into seven sections:

- **Installation:** explains how to set up your system - pages 3, 4 and 5.
- **Functional overview:** explains how to use the major controls - pages 6, 7 and 8.
- **Amplifier:** gives more detailed information on operation of the amplifier section of your receiver - pages 9 and 10.
- **Tuner:** gives more detailed information on operation of the tuner section of your receiver - page 11.
- **Other options:** 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.

ENVIRONMENTAL INFORMATION

- 1** All redundant packaging material has been omitted. We have done our utmost to make the packaging easy to separate into two mono-materials:
 - cardboard (box);
 - expandable polystyrene (buffer);
 - polyethylene (bags, protective foam sheet)
 Please observe the local regulations regarding the disposal of these packaging materials.
- 2** Your set consists of materials which can be recycled and reused if disassembled by a specialized company. Please inquire about local regulations on how to hand in your old set for recycling.
- 3** Do not dispose of exhausted batteries with your household waste. Handle with care and dispose according to local regulations.

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

Also see chapter 'Power' on page 9.

- 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.
- **Important!** If your unit is equipped with a voltage selector for both the MAINS transformer and the STANDBY switch, make sure you do the following:
With the POWER off, set both selectors to the same voltage and according to the local mains supply (120 V or 230 V).
- 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 on the back of the set.

INSTALLATION

English

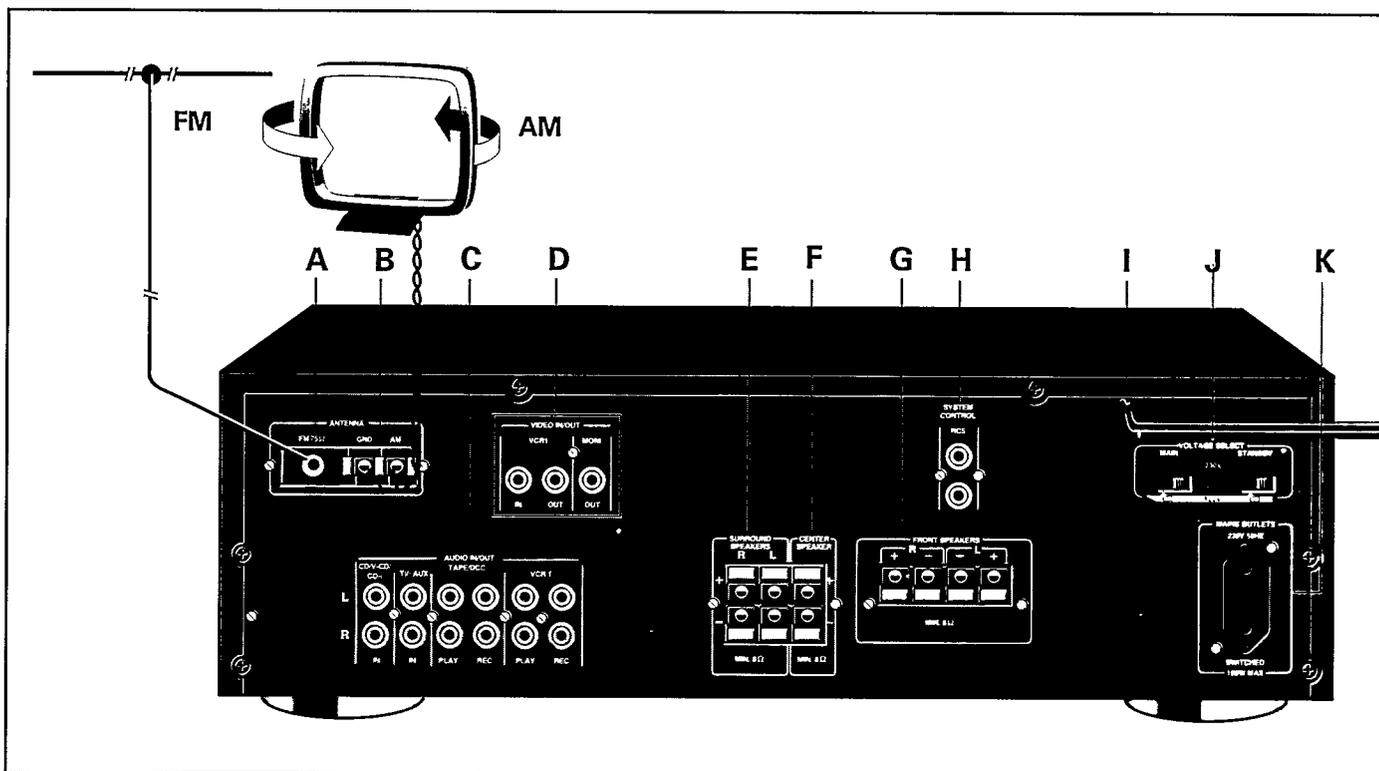
You only have to install your system once. Please make the following connections (where applicable).

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:

FR732	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 supplied wire 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 AUDIO IN/OUT

- **CD/V-CD/CD-i IN** – input sockets for connecting a CD (Compact Disc) player or a V-CD/CD-i player.
 - Connect these sockets to the OUTPUT sockets of the CD or V-CD/CD-i 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/DCC PLAY/REC** – input and output sockets for connecting a cassette deck, a Digital Compact Cassette deck or another digital recording device.
 - Connect the PLAY sockets to the LINE OUTPUT sockets of the deck.
 - Connect the REC sockets to the LINE INPUT sockets of the deck.

- **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.

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 socket 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

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

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

H SYSTEM CONTROL

RC-5 (coloured orange) – remote-control input/output sockets for connection to the corresponding RC-5 sockets of a CD (Compact Disc) player or a remote control receiver. Connect the RC-5 sockets to the RC-5 sockets of the external equipment that uses the RC-5 remote control system.

These sockets have been added to maintain compatibility with other Philips Audio equipment.

POWER

I MAINS LEAD

For connecting the set to the mains.

J VOLTAGE SELECTORS *(not all versions)*

For setting both the MAINS transformer and the STANDBY switch to the correct mains voltage (120 V or 230 V).

Caution! Always set both selectors to the same voltage.

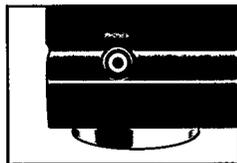
K MAINS OUTLETS

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

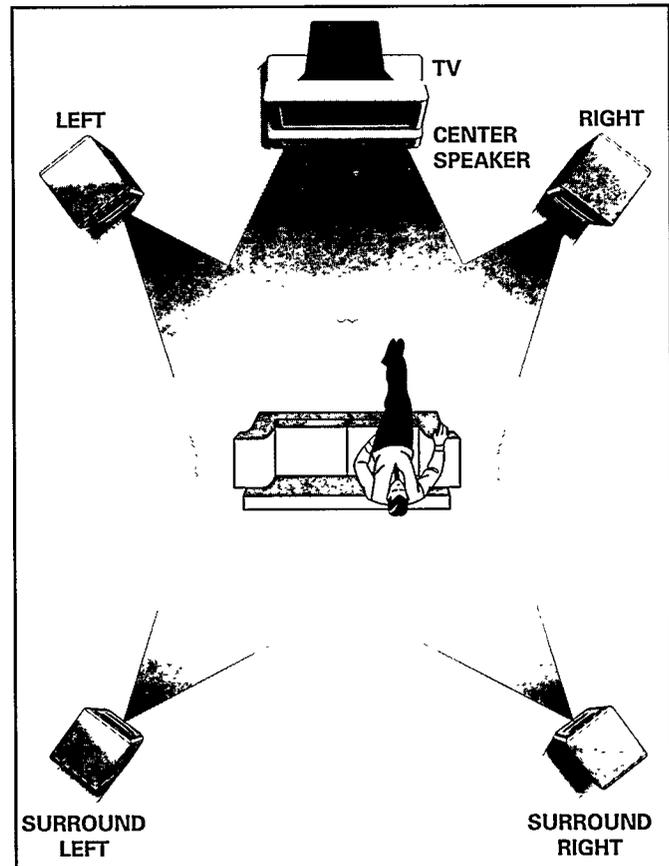
To obtain the best surround sound effect in your home, place the speakers as shown below.

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.

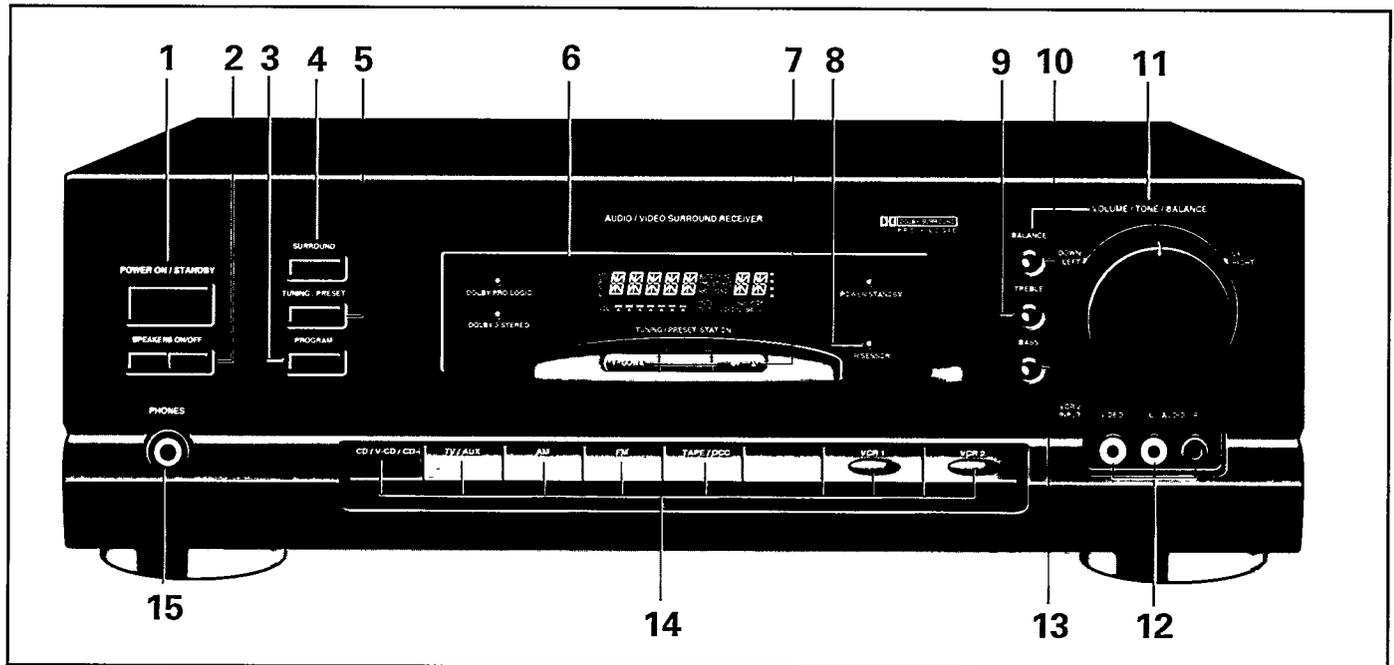
Note: to avoid interference with the TV picture, use only magnetically shielded speaker systems.



After making all necessary connections (some may not apply to your system set-up), your system is ready for use. In the next chapter, we will describe how to operate your FR 732 receiver.

FUNCTIONAL OVERVIEW

English



FRONT

1 POWER ON/STANDBY

For switching on to standby mode and for switching off.

2 SPEAKERS ON/OFF

For switching the speakers connected to the FRONT SPEAKERS terminals on and off.

3 PROGRAM

For storing preset stations.

4 SURROUND

For selecting the surround modes:

DOLBY PRO LOGIC, DOLBY 3-STEREO, OFF.

Dolby Surround manufactured under license from Dolby Laboratories Licensing Corporation. 'Dolby' and the double D symbol DD 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): CD player, Video CD player, cassette deck or DCC deck.

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

Indicates the selected surround mode.

FM, AM

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

88888

Indicates the station frequency.

VOL

Show volume, bass, treble and balance settings.

AUTO

Lights up when operating auto tuning.

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

Lights up when the corresponding source is selected.

88

Indicates 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.

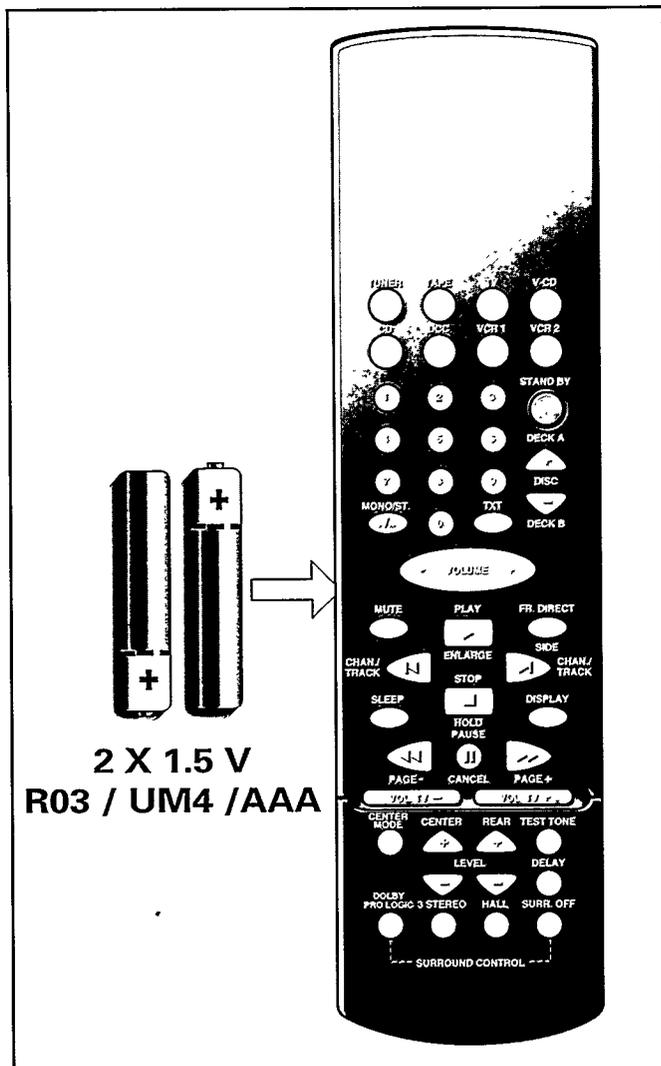
NR(normal), WI(wide band), PH(phantom)

Indicates the selected center mode in Dolby Pro Logic or Dolby 3-Stereo mode.

TEST

Lights up when Test Tone mode is activated.

REMOTE CONTROL



English

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

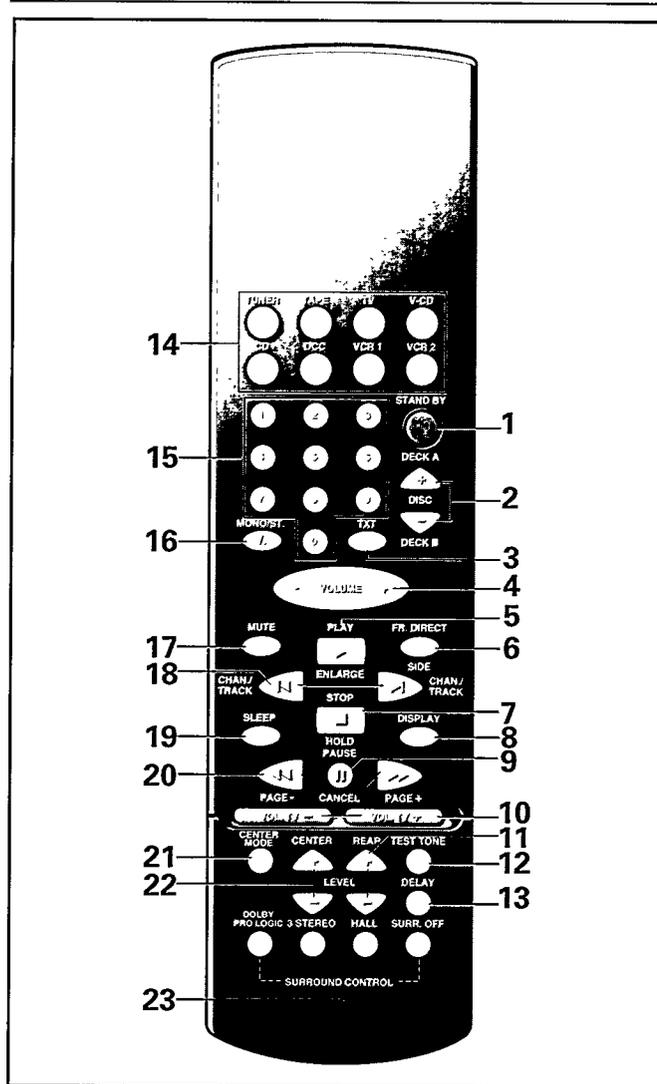
- Open the battery compartment and insert two batteries as indicated, type R03, UM-4 or AAA-cells .
 - Remove the batteries when they have run down or if the remote control will not be used again for a long period.
- Note** – Do not use rechargeable batteries.

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 to standby.
- 4 – **VOLUME +** – for adjusting the volume.
- 14 **Source selectors**
- 17 **MUTE** – for muting the volume.
- 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 (has no influence on the FR732 for the delay time is fixed).
- 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** – for selecting the different surround modes (the HALL button has no influence on the FR732).
- **SURR(ound) OFF** – for switching the surround mode off.

TUNER

- 1 **STANDBY** – for switching to standby.
- 6 **FR(requency) DIRECT** – for direct tuning to the station frequency.
- 15 **0-9 digit keys** – for selecting stations in frequency direct mode and for selecting preset stations.
- 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 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 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.

CD and V-CD/CD-i

- 1 **STANDBY** – for switching 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 during playback of a (V-) CD.
- 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 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 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 key to switch on the power.
- When the receiver is switched to active mode (as described below in the sections titled 'Wake up from standby' and 'SOURCE SELECTION'), the respective indicators light up and the standby indicator is switched off.
- To switch the receiver off press the POWER/STANDBY key again.

STANDBY

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.

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 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 the VOLUME/TONE/BALANCE control; from -6 to 6.

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

- Use the SURROUND CONTROL keys on the remote control to select the desired sound effect: DOLBY PRO LOGIC or DOLBY 3-STEREO.
Press the OFF key on the remote control to switch the surround mode off.
- Press MUTE on the remote control if you want to mute the volume.
- 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 switch 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 using the remote-control handset

- Press 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 2 different surround modes: DOLBY PRO LOGIC, DOLBY 3-STEREO, OFF.

DOLBY PRO LOGIC: choose this setting to play back movies and music (especially Laser Discs, video cassettes 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 to play back movies and music (especially Laser Discs, video cassettes and TV broadcasts with DOLBY SURROUND sound), when not using the 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.

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 and LEVEL keys on the remote control you can set other values. These values will then be kept in the memory until they are changed again.

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

DOLBY PRO LOGIC:

- Use the SURROUND key 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 a low (20W) rating.
 - WI**(wide band) – If the center speaker has a high (same as left and right speakers) rating.
 - PH**(phantom) – If no center speaker is installed.
- Use the REAR LEVEL –, + keys 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 •.
 - The delay time of the rear channel is fixed at 20 milliseconds.
- Use the CENTER LEVEL –, + keys 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 •.

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**(wide band), see above.
 - 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.

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.
 - TEST lights up.
 - You will hear a test tone from the left (**F-L**), center (**CEN**), right (**F-R**) 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 button or press 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.
Once a station is found, the audio signal will be set to normal volume again.
- When STEREO appears on 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 program 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 tuner 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 favourite 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 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 or the 0-9 digit keys on the remote control.
- 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 (using the STANDBY key on your remote control).

DUBBING FROM VCR2 TO VCR1

- Select VCR2 as program source to be recorded.
- Start recording on the VCR connected to VCR1.
- Start playback on the VCR connected to VCR2.
- The audio and video signals from VCR2 will be dubbed onto the tape in VCR1.

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 VCR2 as program source to be recorded.
- *Then* select the required audio source.
- Start recording on the VCR connected to VCR1.
- Start playing back on the audio source and on the VCR connected to VCR2.
- 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<0.9%) 40 Hz - 20 kHz 2 x 60 W (8 Ω)
- Surround mode:
 - front 2 x 60 W
 - rear 60 W
 - center 60 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 Ω

POWER SUPPLY

Mains voltage: according to typeplate
 Power consumption: 110 W
 Mains outlet: 100 W max.

TUNER SECTION

- Wave range FM 87.5 - 108 MHz
- Sensitivity 15.9 dB
- 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 8 kg approx

ACCESSORIES

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

Subject to modification

MAINTENANCE

- Do not leave the unit in direct sunlight or other places where high temperatures can occur for any length of time, 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 persists, attempt to solve it by **switching the receiver off and on again**. If this fails to resolve the situation, 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 SPEAKERS ON/OFF 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 flat 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.

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 Sucursales 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 PARA O BRASIL

(Os dados deste manual estão sujeitos a alterações.)

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. A PHILIPS DA AMAZÔNIA INDÚSTRIA ELETRÔNICA LTDA. assegura ao proprietário consumidor deste aparelho a garantia de 365 dias (90 dias legal mais 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 do 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 65106 – CEP 01390-970 – SÃO PAULO – SP.

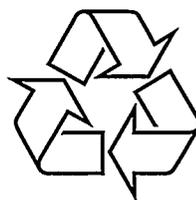
Horário de atendimento: de segunda à sexta-feira, das 08:00 às 20:00 h, aos sábados das 08:00 às 13:00 h.

Para atendimento fora do Brasil, contate a Philips local ou a:
PHILIPS CONSUMER SERVICE
BEUKENLAAN 2
5651 CD EINDHOVEN
THE NETHERLANDS





FR 732 Dolby Prologic AV Receiver



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