

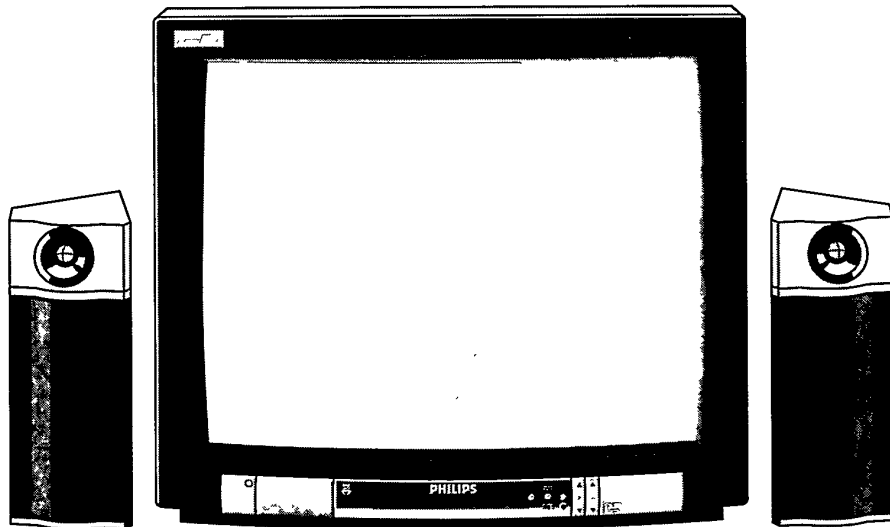


CONSUMER ELECTRONICS

PHILIPS



MATCH  **LINE**



28DC2070

33DC2080

COLOUR TELEVISION
FARBFERNSEHER
TÉLÉVISEUR COULEUR
KLEURENTELEVISIE
TELEVISORE A COLORI

- (GB) Table of TV frequencies
 (D) Frequenztafel der Fernsehsender
 (F) Liste des fréquences des émetteurs

- (NL) Frequentietabel TV-zenders
 (I) Tabella delle frequenze delle trasmissioni

(GB) VHF BAND I	(NL) VHF BAND I
(D) VHF BAND I	(I) BANDA I VHF
(F) BANDE I VHF	
(GB) Channel	Frequency (MHz)
(D) Kanal	Frequenz (MHz)
(F) Canal	Fréquence (MHz)
(NL) Kanaal	Frequentie (MHz)
(I) Canale	Frequenza (MHz)
A	45.75
E2	48.25
2A	49.75
B	53.75
E3	55.25
2	55.75
3	60.50
C	61.75
E4	62.25
4	63.75

(GB) VHF BAND III	(NL) VHF BAND III
(D) VHF BAND III	(I) BANDA III VHF
(F) BANDE III VHF	
(GB) Channel	Frequency (MHz)
(D) Kanal	Frequenz (MHz)
(F) Canal	Fréquence (MHz)
(NL) Kanaal	Frequentie (MHz)
(I) Canale	Frequenza (MHz)
S1	105.25
S2	112.25
S3	119.25
S4	126.25
C	128.75
S5	133.25
S6	140.25
D	140.75
S7	147.25
E	152.75
S8	154.25
S9	161.25
F	164.75
S10	168.25
D	175.25
E5	175.25
5	176.00
G	176.75
E6	182.25
E	183.25
6	184.00
H	188.75
E7	189.25
F	191.25
7	192.00
E8	196.25
G	199.25
8	200.00
I	200.75
E9	203.25
H	207.25
9	208.00
E10	210.25
J	212.75
I	215.25
10	216.00
E11	217.25
J	223.25
E1A2	224.25
K	224.75
S11	231.25
L	236.75
S12	238.25
S13	245.25
M	248.25
S14	252.25
S15	259.25
N	260.75
S16	266.25
O	272.75
S17	273.25
S18	280.25
P	284.75
S19	287.25
S20	294.25
Q	296.75

(GB) UHF BAND	(NL) UHF BAND
(D) UHF BAND	(I) BANDA UHF
(F) BANDE UHF	
(GB) Channel	Frequency (MHz)
(D) Kanal	Frequenz (MHz)
(F) Canal	Fréquence (MHz)
(NL) Kanaal	Frequentie (MHz)
(I) Canale	Frequenza (MHz)
21	471.25
22	471.25
23	487.25
24	495.25
25	503.25
26	511.25
27	519.25
28	527.25
29	535.25
30	543.25
31	551.25
32	559.25
33	567.25
34	575.25
35	583.25
36	591.25
37	599.25
38	607.25
39	615.25
40	623.25
41	631.25
42	639.25
43	647.25
44	655.25
45	663.25
46	671.25
47	679.25
48	687.25
49	695.25
50	703.25
51	711.25
52	719.25
53	727.25
54	735.25
55	743.25
56	751.25
57	759.25
58	767.25
59	775.25
60	783.25
61	791.25
62	799.25
63	807.25
64	815.25
65	823.25
66	831.25
67	839.25
68	847.25
69	855.25

Ⓒ Operating instructions

Attention!

- Always open this flap page first.

Ⓓ Bedienungsanleitung

Achtung!

- Immer zuerst dieses Umschlagblatt öffnen.

Ⓕ Mode d'emploi

Attention!

- Commencez toujours par ouvrir ce rabat.

Ⓖ Gebruiksaanwijzing

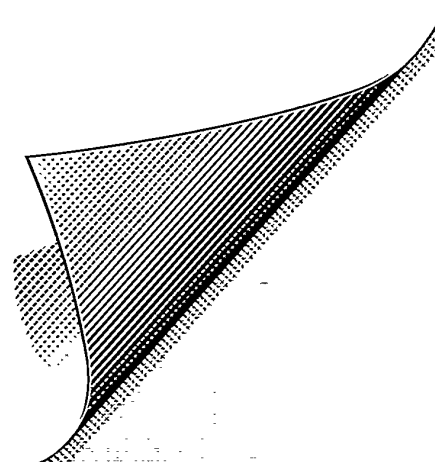
Attentie!

- Altijd eerst deze flap openslaan.

Ⓘ Istruzioni per l'uso

Attenzione!

- Aprire sempre prima questa pagina pieghevoile.



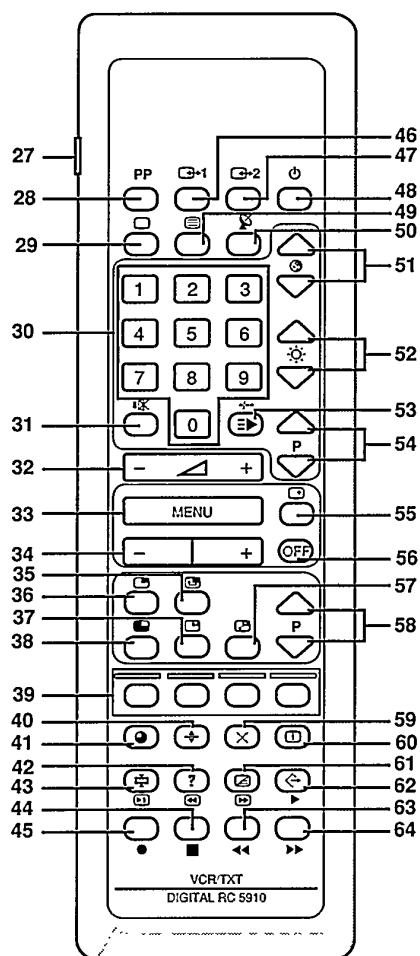
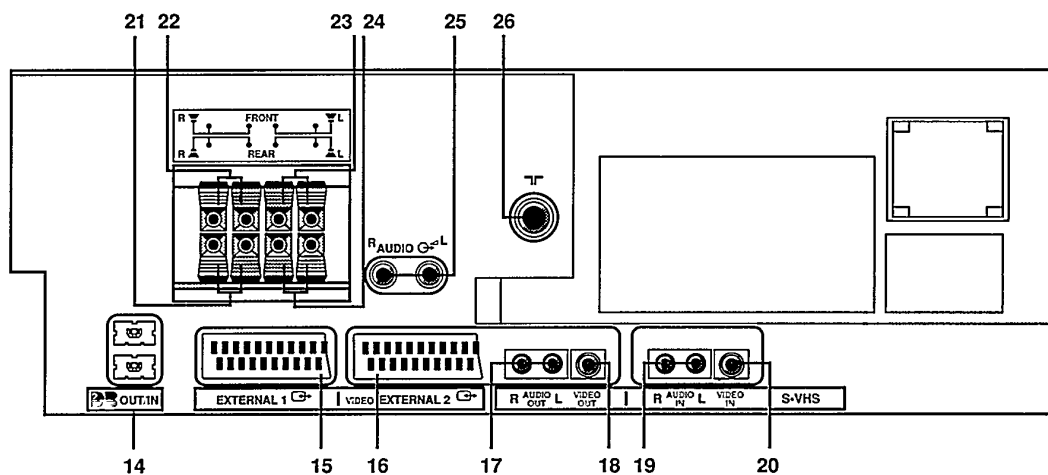
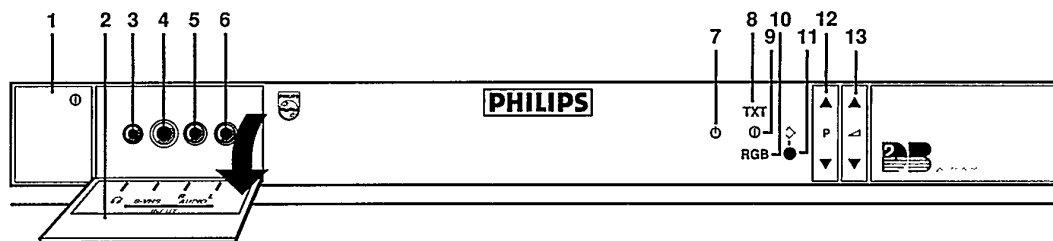


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INTRODUCTION

1

How does a menu TV work?

This menu TV can be adjusted and operated very easily by means of menus which can be displayed on the screen. The menus can be displayed in 5 different languages (English, German, French, Italian and Dutch). In this English text of the operating instructions it is assumed that the English language has been selected.

There are 2 menus: the INSTALLATION menu and the MAIN MENU.

The INSTALLATION menu helps you to adjust the TV and to store TV stations.

On the remote control you will find the buttons which are used most frequently for operating the TV. The MAIN MENU also offers a choice of specific options, such as changing extra picture and sound settings or selecting special functions.

Below each menu you will find a 'help line' that tells you which buttons can or must be pressed.

What are the advantages of the D2B (Digital Domestic Bus)?

- All TV stations already stored in D2B equipment can be transferred directly to other D2B equipment.
- Information on the TV screen tells you how the system works.
- Internationally standardised operation, so that D2B equipment from various manufacturers can be interconnected.
- Intelligent standby function, which means that video recordings cannot be interrupted by mistake.
- By pressing only one button, you can watch two different TV programmes, one on the main screen and one on the PIP screen.

All text parts concerning D2B have a grey background. If at this moment you do not have other D2B equipment, you can skip these text parts for the moment.

Summary of controls and connections

Front

- 1 Switching the TV on/off
- 2 Cover
- 3 Headphone input
- 4 S.VHS INPUT Video input for Super-VHS video recorder (playback only)
- 5 R AUDIO INPUT Right-hand audio input for Super-VHS video recorder (playback only)
- 6 AUDIO INPUT L Left-hand audio input for Super-VHS video recorder (playback only)
- 7 Red LED : TV on standby
- 8 TXT Green LED : Teletext switched on
- 9 Green LED : TV switched on
- 10 RGB Red LED : EXT1 RGB switched on
- 11 Displaying the INSTALLATION menu
- 12 P Selecting higher/lower programme number
- 13 Increasing/decreasing the volume

Rear

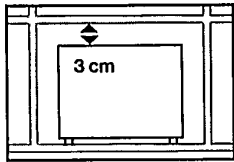
- 14 OUT/IN D2B connectors
- 15 EXTERNAL 1 Euroconnector for Camcorder, CDV player or computer
- 16 VIDEO EXTERNAL 2 Euroconnector for video recorder
- 17 R AUDIO OUT L Left-hand/Right-hand audio output for Super-VHS video recorder (recording)
- 18 VIDEO OUT Video output for Super-VHS video recorder (recording)
- 19 R AUDIO IN L Right-hand/Left-hand audio input for Super-VHS video recorder (playback)
- 20 VIDEO IN Video input for Super-VHS video recorder (playback)
- 21 R REAR Connections for rear right-hand loudspeaker
- 22 R FRONT Connections for front right-hand loudspeaker
- 23 FRONT L Connections for front left-hand loudspeaker
- 24 REAR L Connections for rear left-hand loudspeaker
- 25 R AUDIO L Right-hand/Left-hand variable output for audio equipment
- 26 Aerial input

Remote control

- 27 Video recorder function button
- 28 PP Recalling standard picture and sound settings
- 29 Switching back to TV programme
- 30 0-9 Digit buttons
- 31 Muting the sound
- 32 Increasing/Decreasing the volume
- 33 MENU Switching on MAIN MENU or returning to previous menu
- 34 Changing the settings in menus
- 35 Moving the PIP screen
- 36 Switching PIP on/off
- 37 Still picture in the PIP screen
- 38 Selecting a PIP source
- 39 'Fast selection' buttons (Teletext)
- 40 Double letter height for Teletext page
- 41 Displaying the time
- 42 ? Displaying concealed Teletext information
 - Picture search reverse of video tape *
 - Hold rotating Teletext pages
 - Picture-by-Picture of video tape *
- 43 Stopping the video tape *
- 44 Recording on the video tape *
- 45 Displaying pictures from equipment connected via EXTERNAL 1
- 46 Displaying pictures from equipment connected via VIDEO EXTERNAL 2 or via S.VHS AUDIO/VIDEO IN/OUT at the rear
- 47 Switching on Standby
- 48 Switching Teletext on/off
- 49 This button has no function
- 50 Increasing/decreasing the colour
- 51 Increasing/decreasing the brightness
 - Selector button for 1- or 2-digit programme numbers
 - Displaying the next Teletext page
- 52 Selecting higher/lower programme number
- 53 Displaying programme number, programme name and sleeptimer, if required (OSD)
- 54 P Switching off menus
- 55 Exchange PIP screen with the main screen
- 56 OFF Selecting higher/lower programme number in the PIP screen
- 57 Switching off Teletext temporarily
- 58 P Recalling the Teletext index page
 - Teletext and TV programme simultaneously
 - Picture search forward of video tape *
 - Erasing lines or displaying personal preference pages from the Memory index
 - Playing the video tape *
- 59 X Rewinding the video tape *
- 60 Winding the video tape *
- 61 Winding the video tape *
- 62 Winding the video tape *
- 63 Winding the video tape *
- 64 Winding the video tape *

* Press this button and button 27 simultaneously for video recorder operation.

Preparation

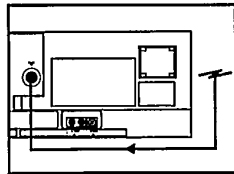


- Unpack TV and remote control.
- Place TV on a solid surface.
- Leave a space of no less than 3 cm all round the set for ventilation.

This TV is suitable for a mains voltage of 220-240V, 50 Hz.

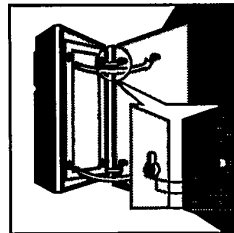
Connecting the TV

Connecting the aerial



- Insert the aerial plug into ㄗ on the back panel of the TV.

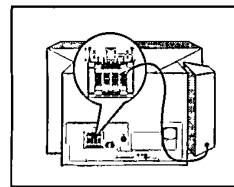
Attaching the loudspeakers



- Attach the 2 loudspeakers supplied with the set to the left- and right-hand side of the TV (see illustration) or put them down on a required spot.

Connecting the front left-hand loudspeaker:

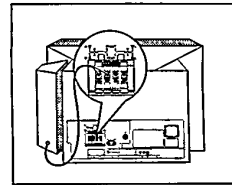
(Via the red and black outputs FRONT ㄣ L top right)



- ① Keep the red, ribbed key pressed and insert the red wire in the opening below the key.
- ② Release the red key to fix the wire.
- ③ Keep the black, ribbed key next to it pressed and insert the black wire in the opening below the key.
- ④ Release the black key to fix the wire.

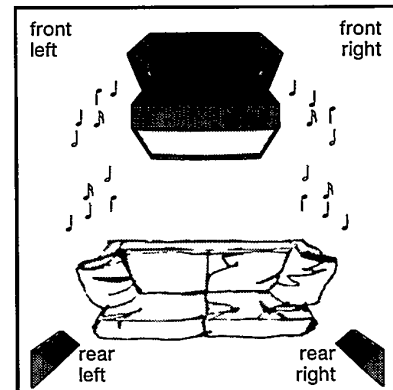
Connecting the front right-hand loudspeaker:

(Via the red and black outputs R ㄣ FRONT top left)



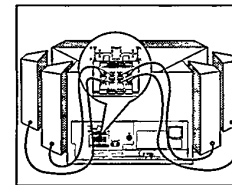
- To connect the right-hand loudspeaker, repeat steps ① to ④ above.

To create a surround sound effect, you can connect two additional 8-ohm loudspeakers (optional). See Chapter 4 - 'Changing sound settings via the menus'.



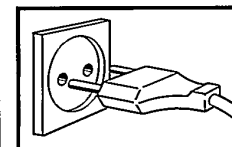
Connecting the rear left-hand and rear right-hand loudspeakers:

(Via the red and black outputs R ㄣ REAR ㄣ L bottom left and right.)



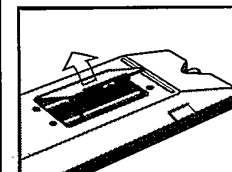
- Repeat the steps above.

Connecting the TV to the mains



- Put the mains plug in the wall socket.

Inserting batteries in the remote control



- Remove the lid of the battery compartment on the back of the remote control.
- Insert the 3 batteries (type LR03 - 1.5 V) supplied.
- Replace the lid on the battery compartment.

Connecting D2B equipment (if present)

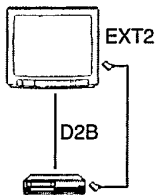
Connecting D2B cables

- Using the D2B cables supplied, connect one of the **D2B** connectors (on the back of the TV) with the D2B connector of the D2B equipment to be connected (e.g. video recorder, and/or CDV, and/or Satellite Tuner, etc.).

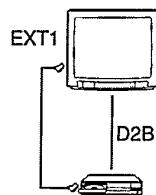
Read 'Connecting a video recorder (or peripherals) - Methods b. and c.' to connect the Eurocables.

Possible D2B combinations

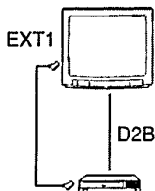
1) TV + video recorder



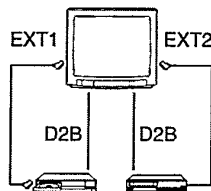
2) TV + CDV



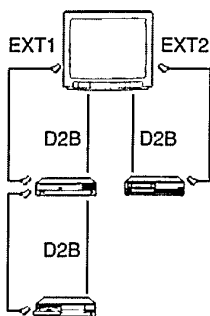
3) TV + Satellite Tuner



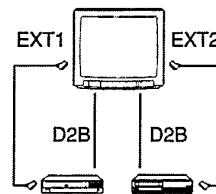
4) TV + CDV + video recorder



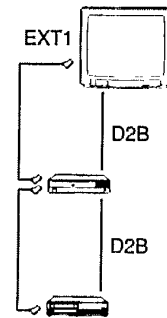
5) TV + Satellite Tuner + CDV + video recorder



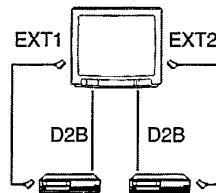
6) TV + Satellite Tuner + video recorder



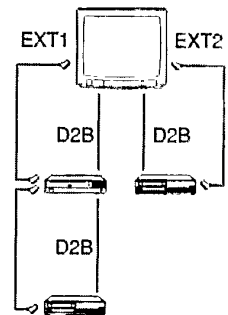
7) TV + Satellite Tuner + video recorder



8) TV + 2 video recorders



9) TV + Satellite Tuner + 2 video recorders



Connecting a video recorder (or peripherals)

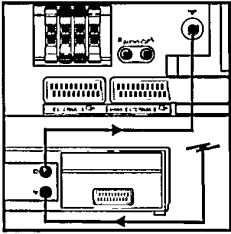
The equipment can be connected in the following ways:

- Method a. Via aerial input π .
(To connect equipment using an aerial cable, e.g. a video recorder.)
- Method b. Via Euroconnector EXTERNAL 1 \rightarrow (= EXT1)
(To connect equipment using a Eurocable, e.g. a Camcorder, CDV player or computer.) (also D2B)
- Method c. Via Euroconnector VIDEO EXTERNAL 2 \rightarrow (= EXT2)
(To connect a video recorder using a Eurocable.) (also D2B)
- Method d. Via S.VHS AUDIO/VIDEO IN/OUT on the rear of the TV (= EXT2)
(To connect a Super-VHS video recorder - **for recording and playback.**)
- Method e. Via S.VHS/R and L AUDIO INPUT at the front of the TV (= EXT3)
(To connect a Super-VHS video recorder - **only for playback.**)

Method a. Via aerial input 11

A video recorder or other equipment with an aerial cable can be connected to this input.

- Switch the TV off.
- Pull the aerial plug out of the TV.
- Insert this plug in aerial input 11 of the equipment to be connected.
- Take the connecting cable supplied with the equipment.
- Put one plug in aerial output 11 of the equipment to be connected and the other one in aerial input 11 of the TV.

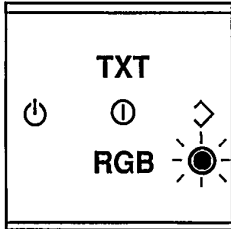


If the equipment has only been connected via aerial input 11, you should now store the test signal under a programme number, as described below.

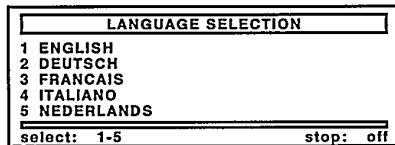
Storing the test signal of the equipment connected
(This is necessary if the equipment has **only** been connected via aerial input 11.)

Read the operating instructions of the equipment to find out how to select and recognise this test signal.

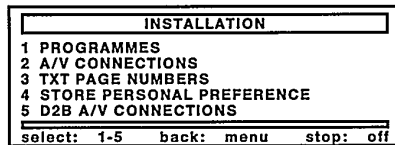
- Press \diamond (on the TV).



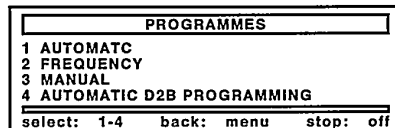
> The language selection menu appears.



- Select the desired language again.
- > The INSTALLATION menu appears.



- Select the digit for PROGRAMMES.
- > The submenu appears.

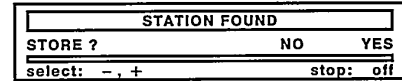


Now follow steps ① to ⑥.

- ① Select the digit for AUTOMATIC to start searching.

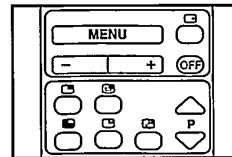


> As soon as the TV stops searching, the STATION FOUND menu appears.

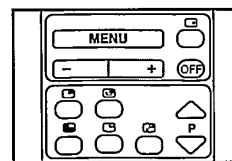


- ②a) Select NO using — if the test signal has not been found or if reception is poor.

> The TV goes on searching automatically.



- ②b) Select YES using + when the test signal has been found.



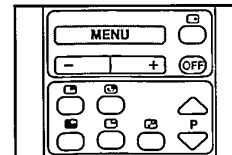
> The PROGRAMME NUMBER menu appears.



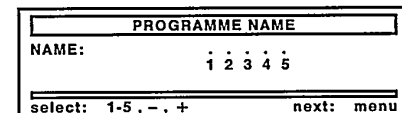
- ③ Use — or + to select the programme number (0 or 50 to 59) under which you want to store the test signal.

Has the right number been selected?

- ④ Press MENU.

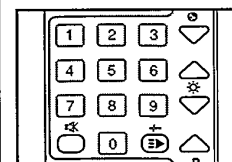


> The PROGRAMME NAME menu appears.

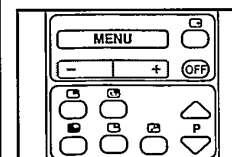


You can name the test signal (e.g. VIDEO) (5 characters max.). However, this only applies to the programme number 0.

If you have selected one of the programme numbers between 50 and 59, PR 0...30 flashes in the menu. In that case proceed with step ⑥.



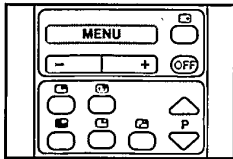
- ⑤ Press 1 to select the first character.
- > An arrow indicates the 1st position.



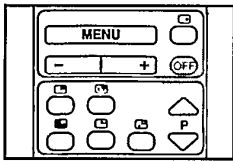
- Use — or + to select the desired character or a space (the space is after the Z or before the 0).

- Press 2, 3, 4 and 5 and use — or + again for the 2nd, 3rd, 4th and 5th characters.

Has the correct name been selected?



- ⑥ Press MENU after entering the 5th character.
> The test signal has been stored in the memory and the TV continues searching.



- Press OFF as many times as necessary to stop searching and to switch off the menus.

Read below how to play back the pictures from the connected equipment.

Playing back the pictures from the connected equipment

- Switch on the TV.
- Switch on the video recorder or the connected equipment.
- Select the programme number (0 or 50 to 59) under which the test signal was stored.
> When the connected equipment is switched on, the pictures appear.

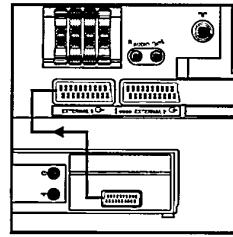
Back to the TV programme

- Select another programme number.

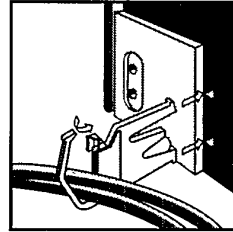
Method b. Via the Euroconnector EXTERNAL 1

A Camcorder, CDV player, Computer or other equipment with a Eurocable* can be connected to this Euroconnector.

* Ask your dealer for the correct Eurocable.



- Connect the Eurocable to EXTERNAL 1 on the rear panel of the TV and to the Euroconnector input of the equipment to be connected.



- You can fix the hook supplied with the TV on the back of the TV to support the Eurocable.

Read below how to display the pictures from the connected equipment.

Displaying the pictures from connected D2B equipment

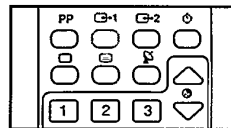
- Switch on the equipment and select required function (e.g. Playback).
> The pictures appear automatically.

Displaying the pictures from connected equipment (not D2B)

It is possible that the pictures appear automatically after switching on the connected equipment.

- Switch on the connected equipment.
> The pictures appear.

The pictures do not appear automatically?



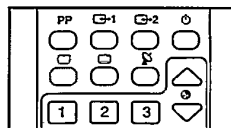
- Press PP-1.
> The pictures appear.

Are there still no pictures?

- Read 'Using the SOURCE SELECT menu' at the end of this chapter to find out how to select the EXT1 RGB mode.

Back to the TV programme (Switching off the automatic changeover)

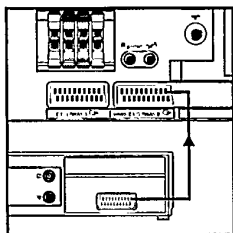
- Press PP.




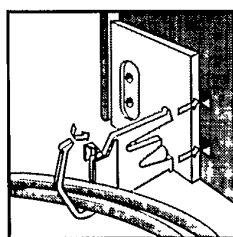
Method c. Via the Euroconnector VIDEO EXTERNAL 2

A video recorder with a Eurocable* can be connected to this Euroconnector.

* Ask your dealer for the correct Eurocable.




- Connect the Eurocable to VIDEO EXTERNAL 2  on the rear panel of the TV and to the Euroconnector input of the video recorder.



- You can fix the hook supplied with the TV on the back of the TV to support the Eurocable.

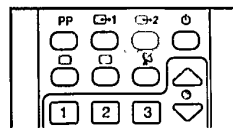
Read below how to play video cassettes.


Playing back video cassettes from D2B video recorder

- Press the playback button (Play ).
- > The recorded pictures appear automatically.

Playing back video cassettes (not D2B)

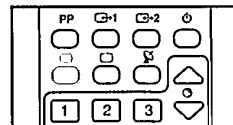
- Press Play  on the video recorder.



- Press  2.
- > The recorded pictures are played back.

Back to the TV programme

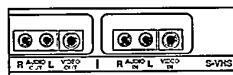
- Press .



Recording video pictures via VIDEO EXTERNAL 2

This procedure is described in 'Using the SOURCE SELECT menu' - '2. Recording pictures from connected equipment'.

Method d. Via S.VHS AUDIO/VIDEO IN/OUT at the rear of the TV

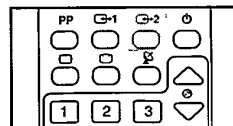



- Connect the Super-VHS cables supplied with the video recorder to S.VHS VIDEO IN and OUT.
- Connect the supplied audio cables to AUDIO IN and OUT.

Read below how to play video cassettes.

Playing video cassettes

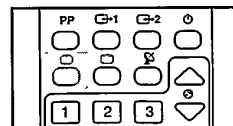
- Press Play  on the video recorder.



- Press  2.
- > The recorded pictures are played back.

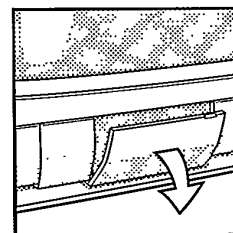
Back to the TV programme


- Press .

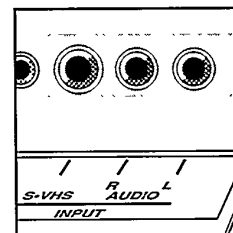


Method e. Via the inputs S.VHS/R and L AUDIO INPUT

A Super-VHS video recorder can be connected to these inputs by means of a S-VHS cable and audio cables.



- Press  to open the cover on the front left of the TV.



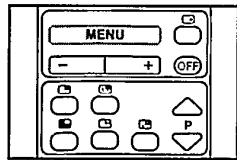
- Connect the Super-VHS cable supplied with the video recorder to the input S.VHS INPUT.
- Connect the audio cables to the inputs R and L AUDIO INPUT.

Read in 'Using the SOURCE SELECT menu' - '1. Displaying pictures from connected equipment' how to play video cassettes.

Using the SOURCE SELECT menu

1. Displaying pictures from connected equipment

To display pictures from connected equipment, you can also use the menus instead of the buttons on the remote control.



- Press MENU.

> The MAIN MENU appears.

MAIN MENU			
1 PICTURE	4 PROGRAMME		
2 SOUND	LIST		
3 SOURCE SELECT	5 SPECIALTIES		
select: 1-5		stop: off	

- Select the digit for SOURCE SELECT.

> The submenu appears.

SOURCE SELECTION	
1 EXT1 VIDEO/RGB	
2 EXT2	
3 EXT3	
4 EXT1 RGB	
5 TV	
6 RECORD SELECTION	
7 SYSTEM	
select: 1-7 back: menu stop: off	

For equipment connected to EXTERNAL 1

- Select the digit for EXT1 VIDEO/RGB (= button 1 on the remote control) or select the digit for EXT1 RGB.
- > As soon as the digit has been selected, the colour will turn yellow and the pictures appear.

For the video recorder connected to VIDEO EXTERNAL 2 or S.VHS AUDIO/VIDEO IN/OUT

- Select the digit for EXT2 (= button 2 on the remote control).
- > As soon as the digit has been selected, the colour will turn yellow and the pictures appear.

For the video recorder connected to S.VHS/R and L AUDIO INPUT at the front of the TV

- Select the digit for EXT3.
- > As soon the digit has been selected, the colour will turn yellow and the pictures appear.

After EXT1, EXT2 or EXT3 has been selected, the SYSTEM choice appears in the menu.
If required, you can now select the TV system of the connected equipment.

- Select the digit for SYSTEM.
- > The submenu appears.

SYSTEM		
EXT1	PAL/SECAM	NTSC
select: -, +		stop: off

- Select PAL/SECAM or NTSC by pressing — or +.

- Press MENU to return to the SOURCE SELECT menu.

Back to TV programme

- Select the digit for TV.
- > As soon as the digit has been selected, the colour will turn yellow.

2. Recording pictures from connected equipment

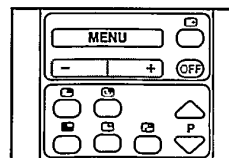
Via a Eurocable*, a video recorder connected to VIDEO EXTERNAL 2 can record pictures from equipment (e.g. Camcorder or CD Video player) connected to EXTERNAL 1 (= EXT1) or from a Super-VHS video recorder connected to S.VHS/R and L AUDIO INPUT (= EXT3), or record pictures received by the TV through the aerial (= TV).

* Consult your dealer about the correct Eurocable.

SOURCE SELECTION	
1 EXT1 VIDEO/RGB	
2 EXT2	
3 EXT3	
4 EXT1 RGB	
5 TV	
6 RECORD SELECTION	
7 SYSTEM	
select: 1-7 back: menu stop: off	

- From the SOURCE SELECT menu, select the digit for RECORD SELECTION.
- > The submenu appears.

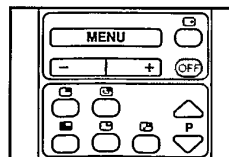
RECORD SELECTION	
1 TV	3 EXT3
2 EXT1	
select: 1-3 back: menu stop: off	



- Select the digit for TV, EXT1 or EXT3.
- > The TV will remember the selection made, even after the TV has been switched off and on again.

Attention!

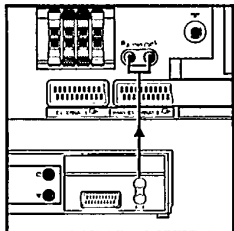
During a recording via the SOURCE SELECT menu the TV **must not** be switched off using button (on the TV).



- Press OFF to switch off the menus.

Connecting the TV to your audio equipment

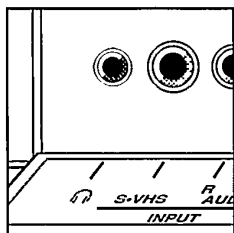
Your audio equipment can be connected to the R AUDIO \odot \triangle L outputs by means of audio cables. The sound of the TV can now be reproduced through your audio equipment and can be controlled with the remote control of your TV.
(To improve the sound effect, it is advisable to detach the loudspeakers from the TV.)



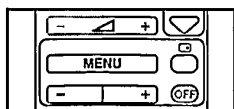
- Connect one end of the audio cables to the R AUDIO \odot \triangle L outputs.
- Connect the other end of the audio cables to the auxiliary input (AUX) of your audio equipment.

Connecting the headphones

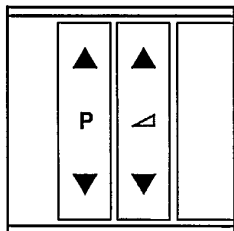
(32 to 2000 ohms, 3.5 mm jack-plug.)



- Put the plug into \odot (on the front of the TV).
> The loudspeakers of the TV remain switched on.



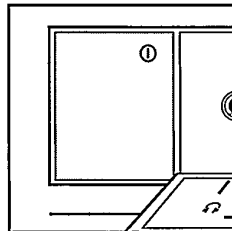
- Press \triangle (on the remote control) or press \triangle (on the TV) to turn down the sound of the loudspeakers.



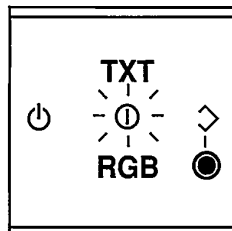
- Adjust the headphone volume as described in chapter 4 'Changing the standard picture and sound settings temporarily - HEADPHONE'.

ADJUSTING THE TV

Switching on

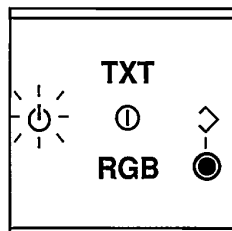


- Press \odot .
> A green or red LED lights up.



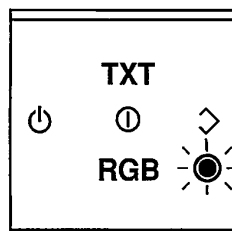
- > If the green LED \odot and the screen light up, the TV is switched on.

The red LED \odot lights up and the screen remains dark?



- > The TV is on standby.
- Press a digit button or \square or P \triangle or ∇ (on the remote control), or press P \triangle or ∇ (on the TV) to switch on the TV.

Displaying the INSTALLATION menu

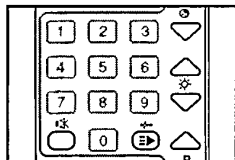


- Press \triangleright (on the TV).

- > The 'Language selection' menu appears.

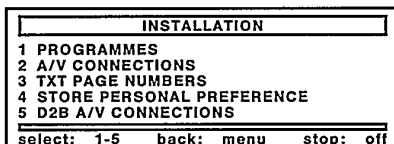
LANGUAGE SELECTION	
1	ENGLISH
2	DEUTSCH
3	FRANCAIS
4	ITALIANO
5	NEDERLANDS
select:	1-5
stop:	off

When the indication 'Parental mode ON' appears in red, you should first switch the lock off as described at the end of the chapter entitled 'Operating the TV'.





- Select the desired language with the digit buttons (e.g. 1 for English).

> The INSTALLATION menu appears.



Initialising the D2B system (storing D2B data)

In order to be able to use all the advantages offered by D2B, it is essential that the equipment is connected both via the D2B connectors and via the Euroconnectors EXTERNAL 1  and/or VIDEO EXTERNAL 2 .

Then you should specify to the TV the connections made (initialisation), as described below.

NOTE!

After every change to the connections made (disconnection and/or addition of D2B equipment), initialisation has to be carried out again.

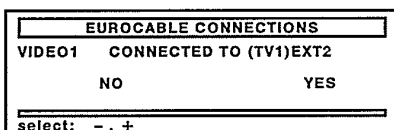
The INSTALLATION menu must be displayed on the screen.




- Select the digit for D2B A/V CONNECTIONS.

> The digit selected turns yellow and the connected D2B equipment is stored in the memory of the TV.

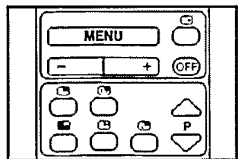
> If a submenu appears, you have made one of the D2B combinations 6 to 9 (see Section 2).



You must now specify whether a video recorder is connected via Euroconnector VIDEO EXTERNAL 2 .

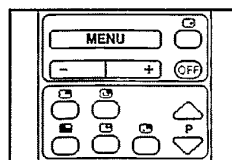
This video recorder makes itself known (e.g. a name appears in the display or the display flashes).

Is the video recorder actually connected via EXT2?



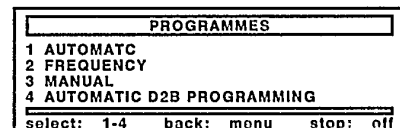
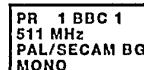
- Press + to select YES.
- > The correct connection is now stored in the memory of the TV and the INSTALLATION menu appears once more.

Is the video recorder connected via EXT1?



- Press — to select NO.
- > The correct connection is now stored in the memory of the TV and the INSTALLATION menu appears once more.

- Select the digit for PROGRAMMES.
- > The submenu appears.



> In the top right-hand corner of the screen the following information appears:

- ① a programme number (e.g. PR 1)
- ② possibly a programme name (e.g. BBC 1)
- ③ a frequency (e.g. 511 MHz)
- ④ the TV system (e.g. PAL/SECAM BG)
- ⑤ possibly the sound system (e.g. MONO).

This multi-standard TV set is suitable for the reception of the following TV systems:

PAL/SECAM BG = European stations
SECAM L = French stations
NTSC = American stations

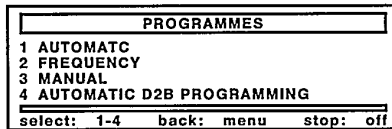
An incorrect TV system is displayed

- You have to change the TV system **before** storing TV stations (see 'Changing the TV system' below).

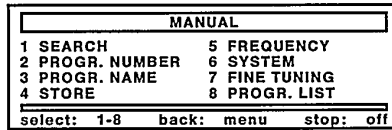
The correct TV system is displayed

- Continue with 'Storing TV stations'.

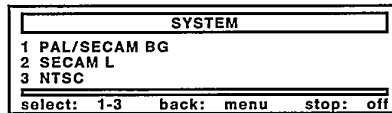
Changing the TV system (if necessary)



- Select the digit for MANUAL.
> The submenu appears.

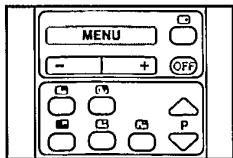


- Select the digit for SYSTEM.
> The submenu appears.



- Select the desired digit for:
 - the European PAL/SECAM BG system;
 - the French SECAM L system;
 - the American NTSC system.

In order to store TV stations, you should first return to the PROGRAMMES menu.



Recalling the PROGRAMMES menu

- Press MENU until the menu appears again.

Storing TV stations

To be able to watch the programmes transmitted by TV stations, you should first store them in the memory under a programme (preselection) number.

This can be done in 5 ways:

Method 1. Downloading DIRECTLY all stations already stored from connected D2B equipment to this TV

or

Method 2. Searching for and storing TV stations AUTOMATICALLY (if you don't know the frequency of the TV station)

or

Method 3. Selecting the FREQUENCY (MHz) of the TV station and storing the stations automatically (see also the frequency table at the beginning of the operating instructions)

or

Method 4. Searching for and storing TV stations MANUALLY

or

Method 5. Selecting frequencies and storing TV stations MANUALLY

The complete procedures are described below.

Once the TV stations have been stored, you can recall them by selecting the corresponding programme numbers.

Altogether, 60 TV stations can be stored under a programme number (0-59).

If you have connected a video recorder via the aerial input π only (see Section 2), we advise you to store the video recorder signal under the programme numbers 0 or 50 to 59.

Method 1. Downloading DIRECTLY all stations already stored from connected D2B equipment to this TV

Follow steps ① to ⑦.

- ① Switch on the connected D2B equipment or put it on standby (e.g. video recorder or video units with own tuner).
- ② Press \triangleright (on the TV).
> The 'Language selection' menu appears.
- ③ Select the correct language.
> The INSTALLATION menu appears.
- ④ Select the digit for PROGRAMMES.
> The submenu appears.

PROGRAMMES	
1	AUTOMATC
2	FREQUENCY
3	MANUAL
4	AUTOMATIC D2B PROGRAMMING
select: 1-4 back: menu stop: off	

Note!

- If AUTOMATIC D2B PROGRAMMING does **not** appear in the menu, the other equipment does not have its own tuner and thus you cannot transfer any TV stations.
- If the message 'D2B ERROR No. 2' appears, check in Section 7 'D2B error messages' if and how you can deal with this fault yourself.

- ⑤ Select the digit for AUTOMATIC D2B PROGRAMMING.
> In the submenu the names of the equipment from which you can transfer stations will appear (e.g. TV2, VIDEO1 or VIDEO2).

AUTOMATIC D2B PROGRAMMING	
1	TV2
2	VIDEO1
3	VIDEO2
select+confirm: 1-3 back: menu	

- ⑥ Select the digit of the equipment from which you want to transfer the stations.
> As soon as the digit has been selected, the choice is shown in yellow.
> The selected equipment also confirms this choice (e.g. via the display of the video recorder).

Has the right digit been selected?

- Proceed with step ⑦.

Have you selected the wrong digit?

- Select the correct digit and proceed with step ⑦.

- ⑦ For confirmation press the **same** digit again to start downloading.
> A programme list appears on the screen. During downloading the programme numbers appear (e.g. PR 1, 2, 4 etc.) of the stations which are being transferred, sometimes followed by the station name (e.g. BBC 1).
> If ***** appears behind a programme number there is no station stored under that number in the D2B equipment.

DOWNLOADING FROM: TV1			
PR 15	RTL	1	FREQUENCY 123,45 MHz
PR NAME	PR NAME	PR NAME	PR NAME
0	VIDEO		
1	BBC 1	11	NRK
2	BBC 2	12	SUPER
3	SKY	13	DR
4	WDR 1	14	
5	*****	15	RTL 1
6	ZDF	16	
7	WDR 3	17	
8	*****	18	
9	BRT 1	19	
10	*****	20	
		21	
		22	
		23	
		24	
		25	
		26	
		27	
		28	
		29	
		30	
back menu stop off			

NOTE!

TV stations previously stored in the memory will be erased.

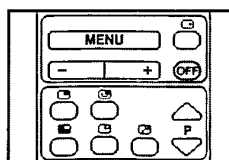
Data for 30 stations can be displayed in the programme list. Stations with programme numbers 31 to 59 will be transferred, but do not appear in the list.

- > As soon as all stations have been transferred, the PROGRAMMES menu appears again.

- Press OFF as many times as necessary in order to switch off the menus.

If you want to interrupt downloading:

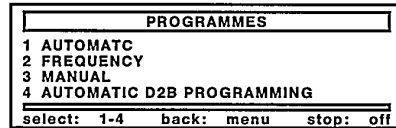
- Press OFF or MENU (on the remote control).



If no station names appear behind the stations transferred, you can still add these (e.g. PR1 = BBC 1), as described in 'Special functions - d. Giving TV stations a name/changing a station name' at the end of this Section.

Method 2. Searching for and storing TV stations AUTOMATICALLY

(The PROGRAMMES menu must be on the screen)

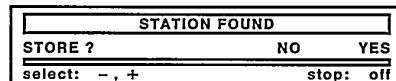



Now follow steps ① to ⑥.

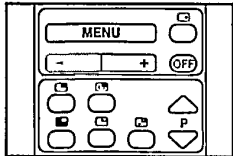
- ① Select the digit for AUTOMATIC to start searching.



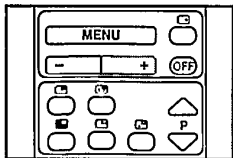
> When a TV station has been found, the STATION FOUND menu will appear.



If only the test picture of the TV station appears, it is possible that the menu covers the name of the station. To check which station has been found you can switch off the menu temporarily by pressing .



- ②a Select NO using — if the wrong station has been found or when reception is poor.
> The TV continues searching automatically.



- ②b Select YES using + when the correct station has been found.

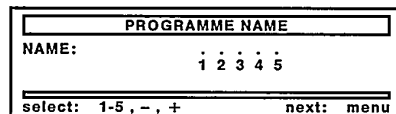
> The PROGRAMME NUMBER menu appears.



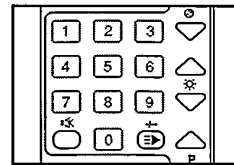
- ③ Press — or + to select the programme number (0 to 59) under which you want to store the TV station.

Has the correct number been selected?

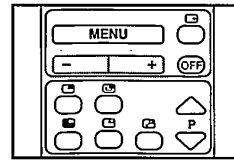
- ④ Press MENU.
> The PROGRAMME NAME menu appears on the screen.



The stations found can be named (5 characters max.). However, this is only possible for programme numbers 0 to 30. If you select a programme number higher than 30, PR 0 .. 30 flashes in the menu. In that case proceed with step ⑥.

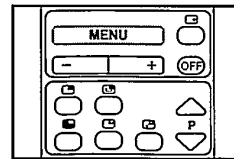


- ⑤ Press 1 to select the first character.
> An arrow indicates the 1st position.



- Press — or + to select the desired character or a space (the space is after the Z or before the 0).
- Press 2, 3, 4 and 5 and use — or + again for the 2nd, 3rd, 4th and 5th characters.

Has the correct name been selected?



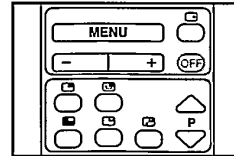
- ⑥ Press MENU.
> The station is automatically stored in the memory and the TV goes on searching for the next station.

Storing further stations

- Repeat steps ② to ⑥.

Read 'Special functions - Displaying the programme list' (at the end of this chapter) to find out how to check what TV stations have already been stored.

If you don't want to store any more stations (Switching off menus)



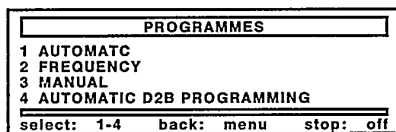
- Press OFF as many times as necessary until the menus disappear.

Method 3. Selecting and storing TV stations directly

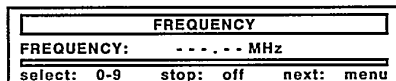
TV stations transmit their programmes on a specific frequency (MHz).

You can ask your dealer for a frequency chart.

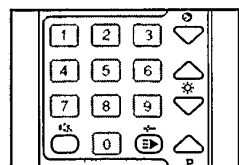
(The PROGRAMMES menu must be displayed on the screen.)



- Select the digit for FREQUENCY.
> The submenu appears.



Now follow steps ① to ⑥.



- ① Use the digit buttons to select the first 5 digits of the desired frequency (e.g. 51125 or 06225).

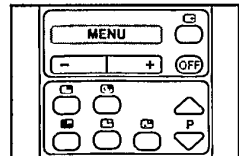
For frequencies under 100 MHz, first enter a '0'.

> One or more bars after the first digit indicate that the selection is not yet complete.

Is the picture quality poor?

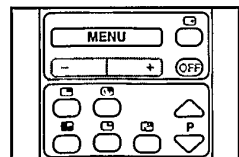
- Select another frequency.

Is the picture quality good?



- ② Press MENU.

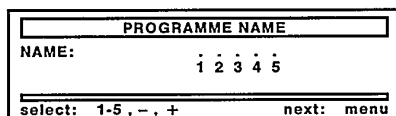
> The PROGRAMME NUMBER menu appears.



- ③ Use — or + to select the programme number (0 to 59) under which you want to store the TV station.

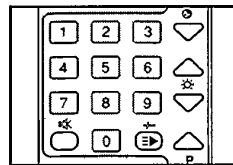
Has the correct number been selected?

- ④ Press MENU.
> The PROGRAMME NAME menu appears.

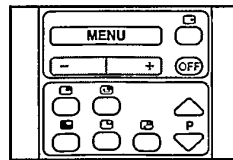


The stations can be named (5 characters max.). However, this is only possible for programme numbers 0 to 30.

If you select a programme number higher than 30, PR 0 .. 30 flashes in the menu. In that case proceed with step ⑥.



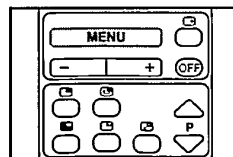
- ⑤ Press 1 to select the first character.
> An arrow indicates the 1st position.



- Use — or + to select the desired character or a space (the space is after the Z or before the 0).

- Press 2, 3, 4 and 5 and use — or + again for the 2nd, 3rd, 4th and 5th characters.

Has the correct name been selected?



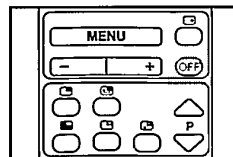
- ⑥ Press MENU.
> The station is automatically stored and the FREQUENCY menu appears again.

Storing further stations

- Repeat steps ① to ⑥.

Read 'Special functions - Displaying the programme list' (at the end of this chapter) to find out how to check what TV stations have already been stored.

If you don't want to store any more stations
(Switching off menus)



- Press OFF as many times as necessary until the menus disappear.

Method 4. Searching for and storing TV stations MANUALLY

(The PROGRAMMES menu must be displayed on the screen.)

PROGRAMMES

1 AUTOMATC
 2 FREQUENCY
 3 MANUAL
 4 AUTOMATIC D2B PROGRAMMING

select: 1-4 back: menu stop: off

- Select the digit for MANUAL.
- > The submenu appears.

MANUAL	
1 SEARCH	5 FREQUENCY
2 PROGR. NUMBER	6 SYSTEM
3 PROGR. NAME	7 FINE TUNING
4 STORE	8 PROGR. LIST


select: 1-8 back: menu stop: off

Now follow steps ① to ⑥.

- ① Select the digit for SEARCH.
> The TV starts to search for a TV station.

SEARCH
FREQUENCY: 511 MHz
back: menu

> As soon as a station has been found, the pictures and the **MANUAL** menu appear.

If only the test picture of the TV station appears, it is possible that the menu covers the name of the station. To check which station has been found you can switch off the menu temporarily by pressing .

Is it not the desired station or is the reception poor?

- Select the digit for SEARCH again.

Has the correct station been found?

- ② Select the digit for **PROGR. NUMBER**.
 > The submenu appears.

```

PROGRAMME NUMBER
NUMBER:          1
select:  - . +          back:  menu

```

- Use — or + to select the programme number (0 to 59) under which you want to store the TV station.

Has the correct programme number been selected?

- ③ Press **MENU**.
 > The **MANUAL** menu appears again.

- ④ Select the digit for PROGR. NAME.
> The submenu appears.

```

PROGRAMME NAME
NAME:          1 2 3 4 5
select: 1-5 , - , +      back: menu

```

The stations found can be named (5 characters max.). However, this is only possible for programme numbers 0 to 30.
If you select a programme number higher than 30, PR 0 .. 30 flashes in the menu. In that case proceed with step ⑤.

- Press 1 to select the first character.
- > An arrow indicates the 1st position.

- Use — or + to select the desired character or space (the space is after the Z or before the 0).
- Press 2, 3, 4 and 5 and use — or + again for the 2nd, 3rd, 4th and 5th characters.

Has the correct name been selected?

- ⑤ Press **MENU**.
> The **MANUAL** menu appears again.
- ⑥ Select the digit for **STORE**.
> The station is stored in the memory and the **MANUAL** menu appears again.

Storing further stations

- Repeat steps ① to ⑥.

Read 'Special functions - Displaying the programme list' (at the end of this chapter) to find out how to check what TV stations have already been stored.

If you don't want to store any more stations (Switching off menus)

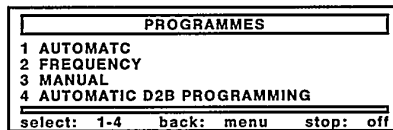
The diagram shows a remote control with the following buttons:

- Top Row:** A large rectangular **MENU** button, a small square button with a square icon, and a small square button with a square icon.
- Second Row:** A rectangular button with a minus sign (**-**), a rectangular button with a plus sign (**+**), and a circular button labeled **OFF**.
- Third Row:** A square button with a square icon, a square button with a square icon, a square button with a square icon, a square button with a square icon, a square button with a square icon, and a large triangular button pointing up.
- Bottom Row:** A square button with a square icon, a square button with a square icon, a square button with a square icon, a square button with a square icon, a square button with a square icon, and a large triangular button pointing down.

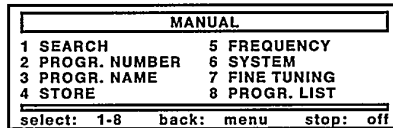
- Press OFF as many times as necessary until the menus disappear.

Method 5. Selecting frequencies and storing TV stations MANUALLY

(The PROGRAMMES menu must be displayed on the screen.)

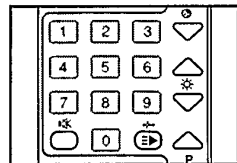
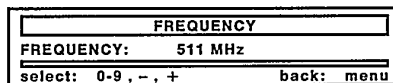


- Select the digit for MANUAL.
- > The submenu appears.



Now follow steps ① to ⑧.

- ① Select the digit for FREQUENCY.
- > The submenu appears.



- ② Use the digit buttons to select the first 3 digits of the desired frequency (e.g. 511 or 062).

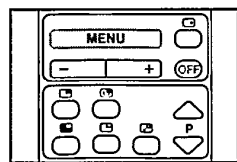
For frequencies below 100 MHz, first enter a '0'.

> One or more bars after the first digit indicate that the selection is not yet complete.

Is the picture quality poor?

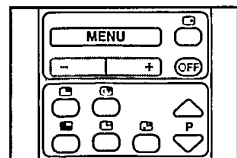
- Select another frequency.

Is the picture quality good?



- ③ Press MENU.
- > The MANUAL menu appears again.

- ④ Select the digit for PROGR. NUMBER.
- > The submenu appears.

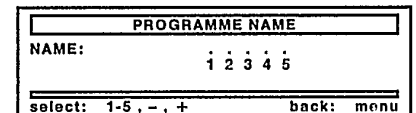


- Use — or + to select the programme number (0 to 59) under which you want to store the TV station.

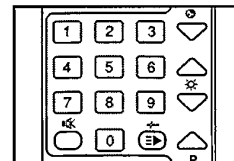
Has the correct programme number been selected?

- ⑤ Press MENU.
- > The MANUAL menu appears again.

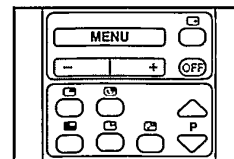
- ⑥ Select the digit for PROGR. NAME.
- > The submenu appears.



The stations found can be named (5 characters max.). However, this is only possible for programme numbers 0 to 30. If you select a programme number higher than 30, PR 0 .. 30 flashes in the menu. In that case proceed with step ⑦.



- Press 1 to select the first character.
- > An arrow indicates the 1st position.



- Use — or + to select the desired character or a space (the space is after the Z or before the 0).

- Press 2, 3, 4 and 5 and use — or + again for the 2nd, 3rd, 4th and 5th characters.

Has the correct name been selected?

- ⑦ Press MENU.
- > The MANUAL menu appears again.

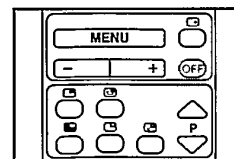
- ⑧ Select the digit for STORE.
- > The station is now stored in the memory and the MANUAL menu appears again.

Storing further stations

- Repeat steps ① to ⑧.

Read 'Special functions - Displaying the programme list' (at the end of this chapter) to find out how to check what TV stations have already been stored.

If you don't want to store any more stations (Switching off menus)

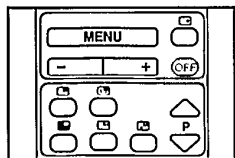


- Press OFF as many times as necessary until the menus disappear.

Special functions

a. Fine tuning of TV stations (if necessary)

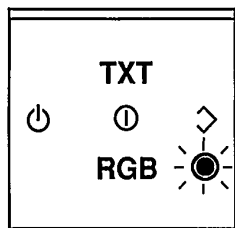
The reception quality of TV stations already stored can be improved if it is not optimal due to local circumstances.



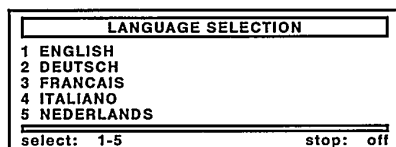
- If necessary, press OFF as many times as required to switch off the menus temporarily.

- Select the programme number of the TV station stored.

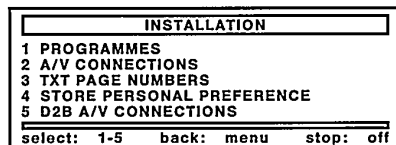
- Press \triangleright (on the TV).



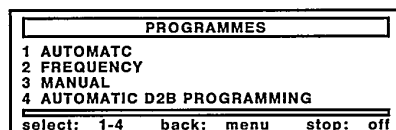
> The language selection menu appears.



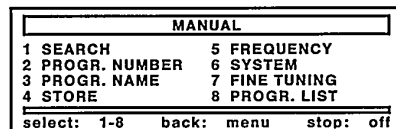
- Select the desired language again.
- > The INSTALLATION menu appears.



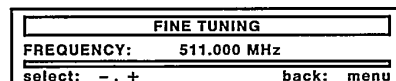
- Select the digit for PROGRAMMES.
- > The submenu appears.



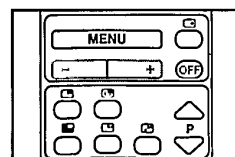
- Select the digit for MANUAL.
- > The submenu appears.



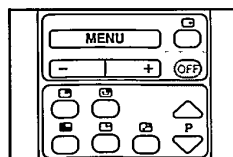
- Select the digit for FINE TUNING.
- > The submenu appears.



- Press — or + to improve the reception, if possible.
- > When this button is pressed, the last 4 digits of the frequency will change.

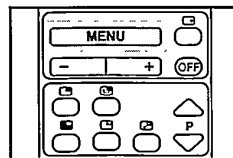


If the reception cannot be improved



- Press OFF as many times as necessary to switch off the menus.

Do you want to store the changed setting?

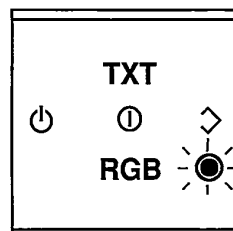


- Press MENU.
- > The MANUAL menu appears again.
- Select the digit for STORE.
- > The TV station is stored again.
- Press OFF as many times as necessary to switch off the menus.

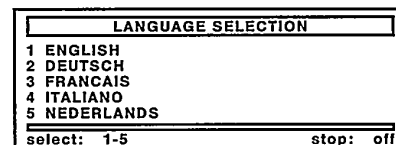
b. Displaying the programme list

To check what stations have already been stored, you can display a programme list containing the programme numbers and the names of all stored TV stations. (Only the first 30 TV stations stored appear in the list.)

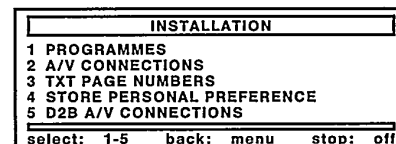
- Press \triangleright (on the TV), if necessary.



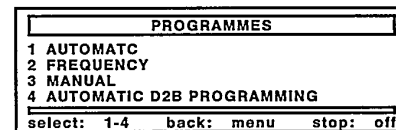
> The language selection menu appears.



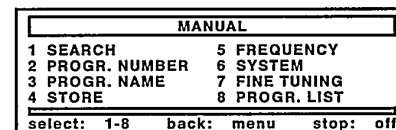
- Select the desired language again.
- > The INSTALLATION menu appears.



- Select the digit for PROGRAMMES.
- > The submenu appears.



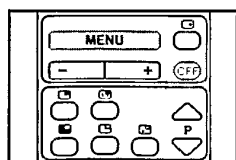
- Select the digit for MANUAL.
- > The submenu appears.



- Select the digit for PROGR. LIST.
> The programme list appears.

PROGRAMME LIST		
NR NAME	NR NAME	NR NAME
0 VIDEO	12	24
1 BBC 1	13	25
2 BBC 2	14	26
3	15	27
4	16	28
5	17	29
6	18	30
7	19	
8	20	
9	21	EXT1
10	22	EXT2
11	23	EXT3 SVHS

back: menu stop: off



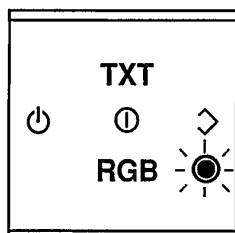
- Press MENU to return to the MANUAL menu or press OFF to switch off the menus.

c. Storing name and TV system for connected equipment

Equipment connected can be named and the TV system of that equipment can be stored.

Connected via:	Example of name:	Indication on screen:
EXTERNAL 1 ➡	'CAM' for Camcorder 'CDV' for CDV player	EXT1 EXT1
VIDEO EXTERNAL 2 ➡	'VIDEO' for video recorder	EXT2
S.VHS AUDIO/VIDEO IN/OUT (rear of TV)	'SVHS' for Super-VHS video recorder	EXT2
S.VHS/R and L AUDIO INPUT (front of TV)	'SVHS' for Super-VHS video recorder	EXT3

As soon as you use the connected equipment, the indication EXT1, EXT2 or EXT3, and eventually the stored name, will briefly appear on the screen.



- If necessary, press ◀ (on the TV).

> The language selection menu appears.

LANGUAGE SELECTION	
1 ENGLISH	
2 DEUTSCH	
3 FRANCAIS	
4 ITALIANO	
5 NEDERLANDS	

select: 1-5 stop: off

- Select the desired language again.
> The INSTALLATION menu appears.

INSTALLATION	
1 PROGRAMMES	
2 A/V CONNECTIONS	
3 TXT PAGE NUMBERS	
4 STORE PERSONAL PREFERENCE	
5 D2B A/V CONNECTIONS	

select: 1-5 back: menu stop: off

- Select the digit for A/V CONNECTIONS.
> The submenu appears.

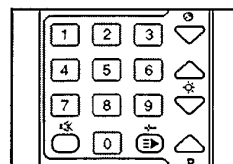
A/V CONNECTIONS	
1 EXT 1	
2 EXT 2	
3 EXT 3	
4 STORE	

select: 1-4 back: menu stop: off

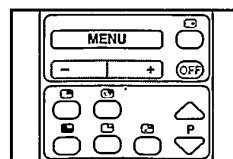
- Select the digit for EXT1, EXT2 or EXT3.
> The submenu for EXT1, EXT2 or EXT3 appears.

EXT 1	
NAME:	1 2 3 4 5
6 PAL/SECAM	
7 NTSC	

select: 1-7, -, + back: menu



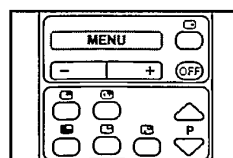
- Press digit button 1 and select the first character of the name with — or +.



- Press 2, 3, 4 and 5 and use — or + again for the 2nd, 3rd, 4th and 5th characters.

- Select, if necessary, the digit (6 or 7) for the desired TV system.

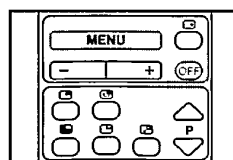
Have the correct name and the correct system been selected?



- Press MENU.
> The A/V CONNECTIONS menu appears again.

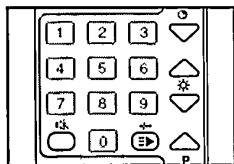
- Select the digit for STORE.
> Name and TV system are now stored in the memory. You will see the programme list appear briefly, with the name stored in the bottom right-hand corner.

- Press MENU to return to the INSTALLATION menu or press OFF to switch off the menus.

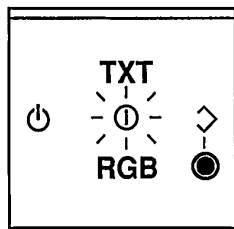


d. Giving TV stations a name/changing a station name
(Only possible for TV stations stored under the programme numbers 1 to 30.)

Follow steps ① to ⑩.

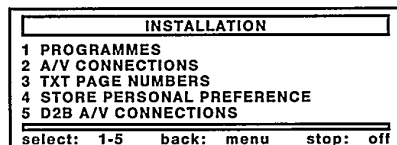


- ① Select the programme number of the station which you want to name or whose name you wish to change.

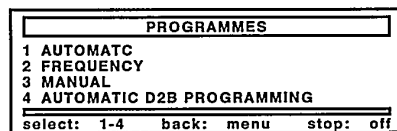


- ② Press \diamond (on the TV).
> The 'Language selection' menu appears.

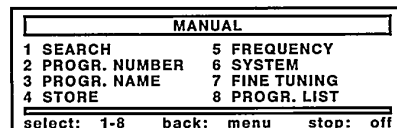
- ③ Select the correct language.
> The INSTALLATION menu appears.



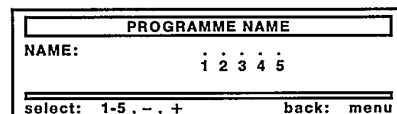
- ④ Select the digit for PROGRAMMES.
> The submenu appears.



- ⑤ Select the digit for MANUAL.
> The submenu appears.



- ⑥ Select the digit for PR-NAME.
> The submenu appears.

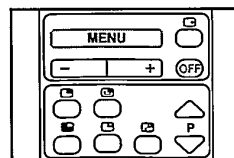


- ⑦ Press 1 to select the first character.
> An arrow indicates the first position.

- Use — or + to select the desired character or a space (the space is after the Z or before the 0).

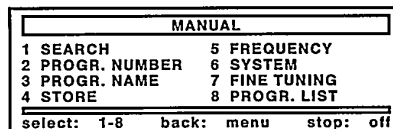
- Press 2, 3, 4 and 5 and use — or + again for the 2nd, 3rd, 4th and 5th character.

Has the correct name been selected?



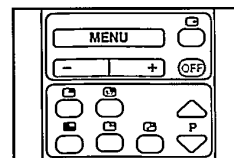
- ⑧ Press MENU.

> The MANUAL menu appears again.



- ⑨ Select the digit for STORE.
> The station will now be stored again in the memory together with the programmed name.

- ⑩ Press OFF as many times as necessary until the menus disappear.

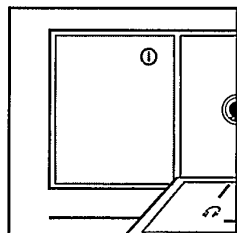


Storing other station names

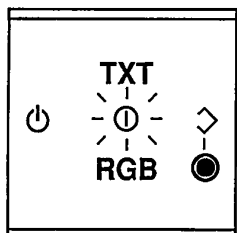
- Repeat steps ① to ⑩.

Switching on and off

Switching on

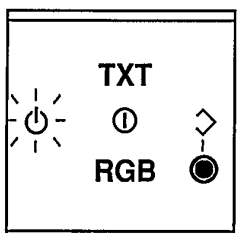


- Press ①.
> A green or red LED lights up.



- > If the green LED ① and the screen light up, the TV is switched on.

The red LED ① lights up and the screen remains dark?

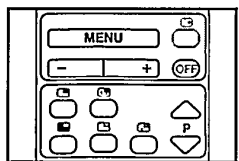


- > The TV is on standby.
- Press a digit button or ④ or P ▲ or ▼ (on the remote control), or press P ▲ or ▼ (on the TV) to switch on the TV.

Switching off

- Press ① again.

Selecting programme numbers (TV stations)



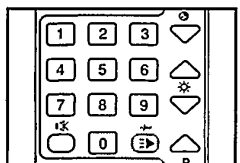
If necessary, press ③ to check what programme number you are watching at the moment. The number stays on the screen until you press ③ again.

1. Selecting TV stations via the remote control

Programme numbers 0-9:

- When PR 0 to PR 9 appears, you can select the numbers 0-9 directly.

Does PR 10 to PR 59 appear?

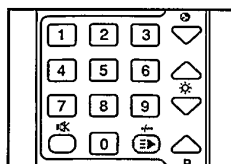


- Press +/- until PR - appears and then select the desired number.

Programme numbers 10-59:

- When PR 10 to PR 59 appears, you can select the numbers 10 to 59 directly.

Does PR 1 to PR 9 appear?



- Press +/- until PR -- appears and then select the desired number.

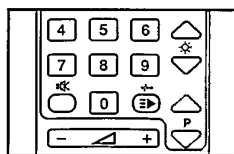
After a programme number has been selected, the selected programme number and possibly the programmed station name will appear for approximately 3 seconds.

One of the following sound systems* may also appear.

- STEREO in white : stereo is on
- STEREO in red : stereo is off
- DUAL I or II : programme is transmitted in 2 languages
- DIGITAL AVAILABLE : digital sound can be switched on (only in the Scandinavian countries).

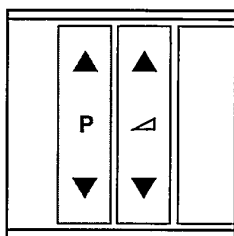
* For more information, see 'Changing SOUND settings by means of menus' in this chapter.

Quickly running through TV stations



- Press P ▼ or P ▲ repeatedly.

2. Selecting TV stations with the buttons on the TV



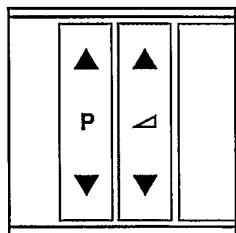
- Press P ▲ or ▼ (or keep the buttons pressed) for higher or lower programme numbers.

If 'Parental mode ON' appears in red, you should first switch off the lock as described at the end of this chapter.

Changing the standard picture and sound settings temporarily

Picture and sound have been set according to a specific standard. You can change these settings according to your **personal preference**, irrespective of the TV station you are watching. However, the standard settings will be saved.

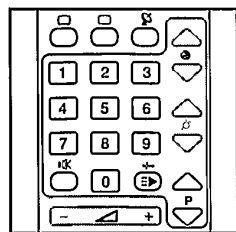
1. Changing the volume with the buttons on the TV



- Press \blacktriangle \blacktriangledown or \blacktriangledown .

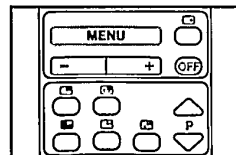
If 'Parental mode ON' appears in red, you should first switch off this lock as described at the end of this chapter.

2. Changing the settings with the buttons on the remote control



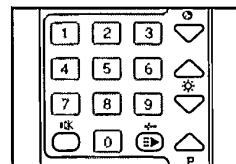
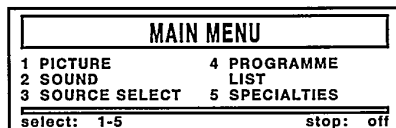
- Volume**
- Press \blacktriangle — or \blacktriangledown .
- Colour**
- Press \odot \blacktriangle or \blacktriangledown .
- Brightness**
- Press \odot \blacktriangle or \blacktriangledown .

3. Changing PICTURE settings via the menus



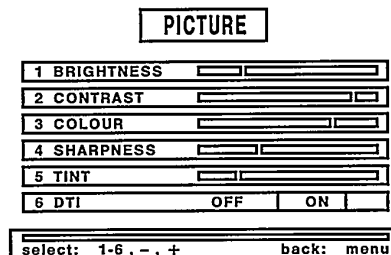
- Press MENU (on the remote control).

> The MAIN MENU appears.



- Select the digit for PICTURE.

> The submenu appears.



As soon as you select a digit from this menu, the black bar of the setting to be changed will turn yellow.

BRIGHTNESS

- Select the digit for BRIGHTNESS and change the setting by pressing — or +.

CONTRAST

- Select the digit for CONTRAST and change the setting by pressing — or +.

COLOUR

- Select the digit for COLOUR and change the setting by pressing — or +.

SHARPNESS

- Select the digit for (picture) SHARPNESS and change the setting by pressing — or +.

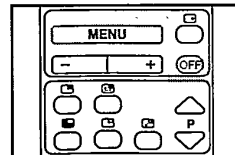
DTI ('Digital Transient Improvement')

- Select the digit for DTI and switch DTI OFF or ON by pressing — or +.
- > The choice is marked by a white frame.

TINT (only for NTSC)

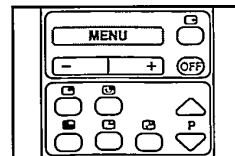
- Select the digit for TINT and change the setting by pressing — or +.

Switching off the PICTURE menu



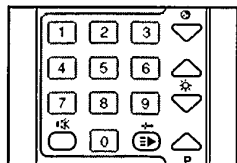
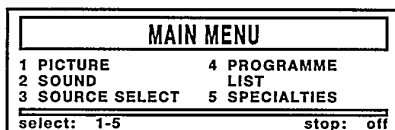
- Press MENU to return to the MAIN MENU or press OFF to switch off the menus.

4. Changing SOUND settings via the menus



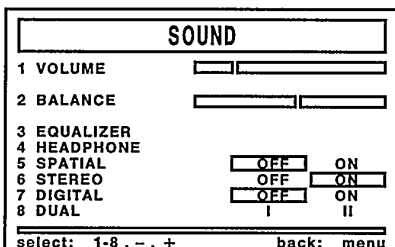
- Press MENU.

> The MAIN MENU appears.



- Select the digit for SOUND.

> The submenu appears.



As soon as you select a digit from the menu, the setting to be changed turns yellow or the submenu appears.

VOLUME

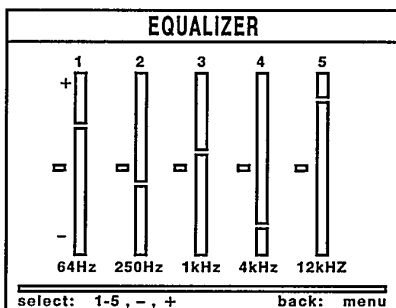
- Select the digit for VOLUME and change the setting by pressing — or +.

BALANCE

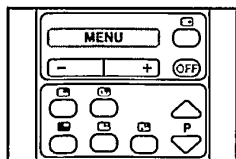
- Select the digit for BALANCE and change the setting by pressing — or +.

EQUALIZER (treble/bass)

- Select the digit for EQUALIZER.
> The submenu appears.



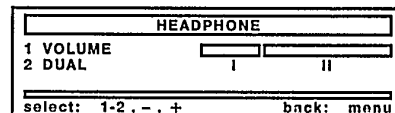
- Select digit 1, 2, 3, 4 or 5 and change the settings by pressing — or +.
> As soon as a digit has been selected, the choice is shown in red.



- Press MENU to return to the SOUND menu.

HEADPHONE

- Select the digit for HEADPHONE.
> The submenu appears.

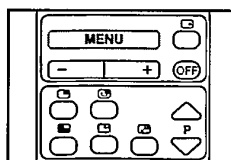


Only when a TV station is transmitting a programme in two languages does the choice DUAL I or II (dubbed or original language) appear in the menu. If the programme is broadcasted in 1 language only, this choice will not be visible.

- Select, if necessary, the digit for VOLUME.
- Change the headphone volume with — or +.

Does the DUAL choice appear at the same time?

- Select, if possible, the digit for DUAL and select language I or II with — or +.
> The choice is marked by a white frame.
- Press MENU to return to the SOUND menu.



SPATIAL sound

- Select the digit for SPATIAL sound and switch spatial sound OFF or ON with — or +.
> The choice is marked by a white frame.

If you want to hear a surround sound effect during a MONO transmission, SPATIAL sound must be switched ON in order to activate the 2 additional loudspeakers (if connected).

STEREO

- Select the digit for STEREO and switch stereo OFF or ON with — or +.
> The choice is marked by a white frame.

To hear the surround sound effect during a STEREO transmission it is sufficient to connect two additional loudspeakers (optional).

DIGITAL (only in the Scandinavian countries)

When this selection appears in the menu you can choose between digital or analog sound.

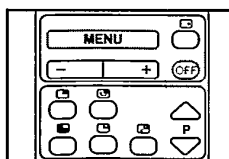
- Select the digit for DIGITAL and switch digital OFF or ON with — or +.

DUAL

This choice will only be visible in the menu if the TV station is transmitting a programme in 2 languages (dubbed or original language).

- Select the digit for DUAL and select language I or II with — or +.
> The choice is marked by a white frame.

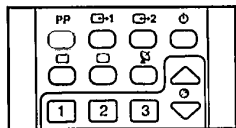
Switching off the SOUND menu



- Press MENU to return to the MAIN MENU or press OFF to switch off the menus.

Recalling the standard picture and sound settings

Irrespective of the TV station you are watching, you can recall the standard settings after changing the settings:



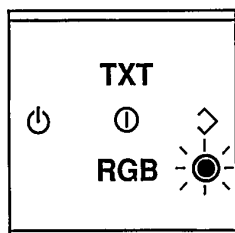
- Press PP (on the remote control).

Storing the personal preference picture and sound settings

(Warning! This cancels the standard settings.)

- Change the picture and sound settings as described in 'Changing the standard picture and sound settings temporarily'.

- Press \diamond (on the TV).



> The language selection menu appears.

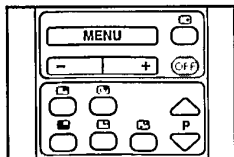
LANGUAGE SELECTION	
1 ENGLISH	
2 DEUTSCH	
3 FRANCAIS	
4 ITALIANO	
5 NEDERLANDS	
select: 1-5 stop: off	

- Select the desired language again.
- > The INSTALLATION menu appears.

INSTALLATION	
1 PROGRAMMES	
2 A/V CONNECTIONS	
3 TXT PAGE NUMBERS	
4 STORE PERSONAL PREFERENCE	
5 D2B A/V CONNECTIONS	
select: 1-5 back: menu stop: off	

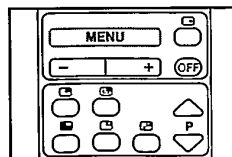
- Select the digit for STORE PERSONAL PREFERENCE.
- > The changed picture and sound settings are stored in the memory. In confirmation of this fact the text turns yellow briefly.

- Press OFF to switch off the menus.



Displaying the programme list

You can call a list which contains the programme numbers and the names of all TV stations already stored.
(Only the first 30 TV stations stored will become visible in the list.)



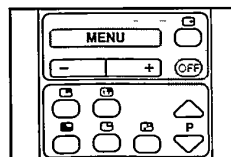
- Press MENU.

> The MAIN MENU appears.

MAIN MENU	
1 PICTURE	4 PROGRAMME LIST
2 SOUND	5 SPECIALTIES
3 SOURCE SELECT	
select: 1-5 stop: off	

- Select the digit for PROGRAMME LIST.
- > The programme list appears on the screen.

PROGRAMME LIST		
NR NAME	NR NAME	NR NAME
0 VIDEO	12 ...	24 ...
1 BBC 1	13 ...	25 ...
2 BBC 2	14 ...	26 ...
3 ...	15 ...	27 ...
4 ...	16 ...	28 ...
5 ...	17 ...	29 ...
6 ...	18 ...	30 ...
7 ...	19 ...	
8 ...	20 ...	
9 ...	21 ...	EXT1 ...
10 ...	22 ...	EXT2 ...
11 ...	23 ...	EXT3 SVHS
select: 0-9, -, + back: menu		



- Press MENU to return to the MAIN MENU or press OFF to switch off the menus.


Switching off picture and sound temporarily (Standby)

You can leave the TV on standby for an unlimited time and switch it on and off with the remote control.
(Read also 'PARENTAL MODE' at the end of this chapter, if you want to lock the TV against unauthorized use after switching over to standby.)

Note!

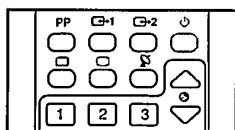
If you want to put the TV on standby while a video recorder is recording, one of the following D2B messages may appear at the bottom of the picture:

'TV1: TV used for RECORDING
first STOP RECORDING then STANDBY'

This situation may occur if the video recorder (via the TV) is recording pictures from video equipment connected to EXTERNAL 1 .
(See also 'Using the SOURCE SELECTION menu' in Section 2.)

The TV can be put on standby in 2 ways:

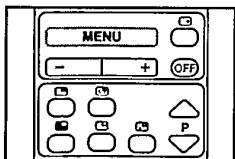
Method 1. Directly



- Press .
- > The red LED  lights up.

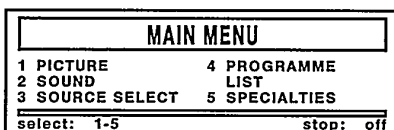
Method 2. With a sleeptimer

With this method you can determine yourself after how much time the TV should switch over to standby (no more than 9 hours and 59 minutes in advance).



- Press MENU.

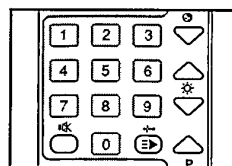
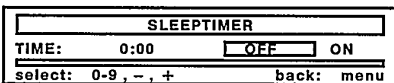
> The MAIN MENU appears.



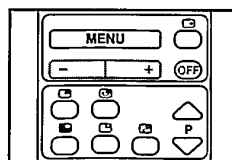
- Select the digit for SPECIALTIES.
- > The submenu appears.



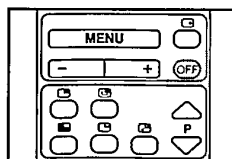
- Select the digit for SLEEPTIMER.
- > The submenu appears.




- Use the digit buttons to select the time (in hours and minutes) after which the TV should switch over to standby. (Always enter 3 digits, e.g. 1:22 or 0:44.)

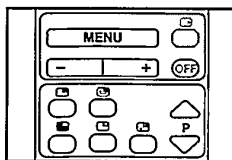



- Press — or + to switch the sleeptimer OFF or ON.
> The choice is marked by a white frame.



- Press OFF to switch off the menus.
> During the last minute before the TV switches over to standby, a red bar gradually shortening appears at the top of the screen.
> When the red bar has disappeared, the TV switches over to standby and the red LED  lights up.

Checking the sleeptimer



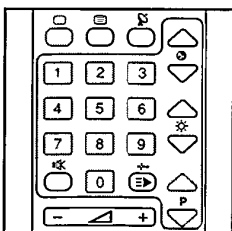
- Press  to check how much longer the TV will be on.
> The sleeptimer appears on the screen.




Switching off the sleeptimer

The sleeptimer can be switched off at any moment.

- Select the menu for SLEEPTIMER again as described above.
- Switch the sleeptimer OFF with —.

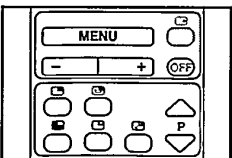
Switching the TV on again from standby mode





- Press a digit button or  or P  or  (on the remote control).

Displaying programme number or sleeptimer (OSD = On Screen Display)

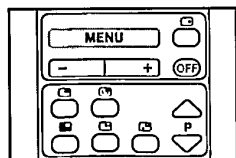
The programme number and, if stored, the name of the TV station you are watching, or the sleeptimer can be checked at any time.



- Press .
> The programme number, the name and possibly the sleeptimer appear on the screen.
- Press  again to switch the information off again.

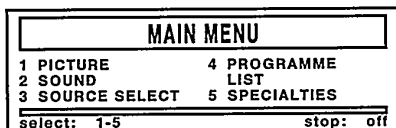
Switching the continuous OSD on/off

You can make programme numbers continuously visible on the screen.



- Press MENU.

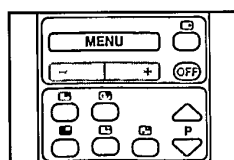
> The MAIN MENU appears.



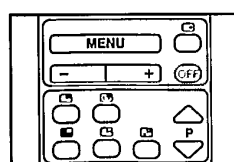
- Select the digit for SPECIALTIES.
- > The submenu appears.



- Select the digit for CONTINUOUS OSD.
- > The submenu appears.



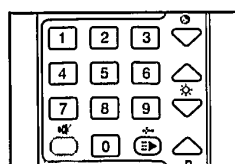
- Press — or + to switch the continuous OSD OFF or ON.
- > The choice is marked by a white frame.



- Press OFF to switch off the menus.
- > You now see the TV programme again and after a few seconds the programme number will appear (in green) in the top right-hand corner of the screen.

The programme numbers remain on the screen until the continuous OSD is switched OFF again.

Muting the sound



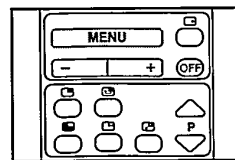
- Press .
- > The sound is muted.

Switching the sound on again

- Press again.

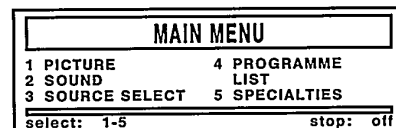
Parental mode (locking the TV)

When the parental mode is on, the TV can only be switched on again with the remote control.

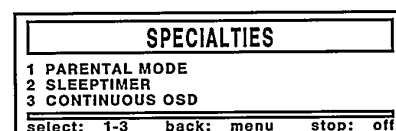


- Press MENU.

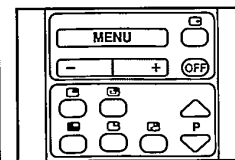
> The MAIN MENU appears.



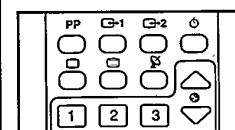
- Select the digit for SPECIALTIES.
- > The submenu appears.



- Select the digit for PARENTAL MODE.
- > The submenu appears.



- Press + to switch the parental mode ON.
- > The choice is marked by a white frame.



- Press if you want to put the TV **directly** on standby, or use the sleep timer to set the time after which the TV should switch over to standby (see method 2. as described in 'Switching off picture and sound temporarily').

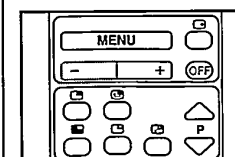
Switching off the parental mode

- Press a digit button or or P or (on the remote control).

- Press MENU.
- > The MAIN MENU appears.

- Select the digit for SPECIALTIES and then the digit for PARENTAL MODE.

- Press — to switch the parental mode OFF.
- > The choice is marked by a white frame.

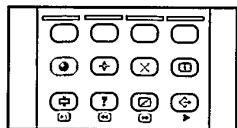


- Press OFF to switch off the menus.

Displaying the time

The time can only be displayed if the TV station you are watching also transmits Teletext.

(Teletext does not have to be switched on.)



- Press ●.
- > The time appears on the screen.
- Press ● again to switch off the time.

TELETEXT

5

General information

Depending on the TV stations you can receive in your country, it is possible to receive 3 'fast' Teletext systems (WST, FLOF or TOP) with this TV.

These systems allow you to select Teletext pages by means of the four coloured 'fast selection' buttons on the remote control. Each Teletext system indicates which of the 'fast selection' buttons can be used.

In all three systems you can also continue to use the digit buttons (to select page numbers) and the special Teletext buttons (see 'Special Teletext functions').

1. WST Teletext system (WST = World System Teletext)

(This system is always used when there are no FLOF or TOP Teletext programmes.)

Read 'Using WST Teletext'.

2. FLOF Teletext system (FLOF = Full Level One Features)

(At present used by all British stations (also known as 'fastext'), English-language satellite stations and Spanish stations. Italy is to begin using it in the near future. Other countries are also expected to adopt this system.)

Read 'Using FLOF Teletext'.

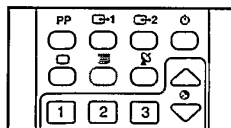
3. TOP Teletext system (TOP = Table Of Pages)

(At present used only in Germany.)

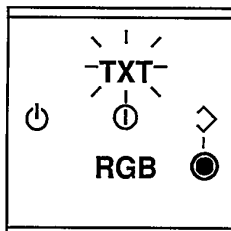
Read 'Using TOP Teletext'.

Switching on Teletext

- Select the programme number of a TV station with Teletext programmes.



- Press ■.
- > The table of contents (index page) appears on the screen.



- > The green LED TXT (on the TV) lights up.
- > The following information appears at the top of the screen:
 - the number of the page shown on the screen
 - the name of the Teletext transmitter
 - a page counter
 - the day, date and time.
- > At the bottom of the screen an information line appears by which the Teletext system can be recognised.

Recognising the Teletext systems

WST information line:

 (red)

 (blue)

FLOF information line (in the language of the TV station):

subject	subject	subject	subject
(red)	(green)	(yellow)	(blue)

TOP information line (in the language of the TV station):

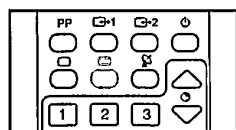
---	heading	subject	+++
(red)	(green)	(yellow)	(blue)

The data contained in the information line at the bottom of the screen refer to whether the **RED**, **GREEN**, **YELLOW** or **BLUE** 'fast selection' button on the remote control is used.

If you want to display always the same pages for a certain TV station, you can store these personal preference pages in the memory index of the TV.

Read 'Storing personal preference pages' at the end of this Section.

Switching off Teletext

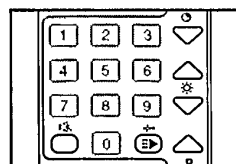


- Press  again.

Using WST Teletext

(Teletext must be switched on.)

Selecting page numbers



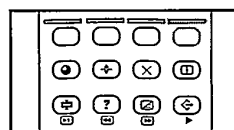
- Select the required page number by pressing the digit buttons (always 3 digits, e.g. 650).
> As soon as the first digit has been selected, for example the indication P6?? appears in the top left-hand corner of the screen. One or more ? indicate that the selection is not yet complete.
> After the number has been selected, the page counter starts running until the page has been found and is shown on the screen.

Does the counter go on searching?

- Select another page number.

You can also use the 'fast selection' buttons to display the following or preceding pages.


Selecting pages using the 'fast selection' buttons

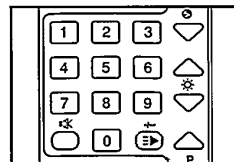


Selecting the next page number

- Press the BLUE button.
> The next page appears (e.g. page 501 is followed by page 502).

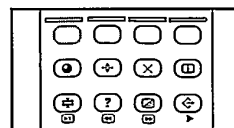
or

- Press  to display the following page.



Selecting the previous page number

- Press the RED button.
> The previous page appears (e.g. page 411 is followed by page 410).

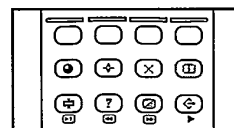


Recalling the index

- Select the page number of the index (usually page 100).

or

- Press  to recall the index directly.

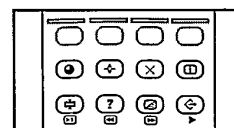


Also read 'Special Teletext functions' and 'Storing personal preference pages'.

Using FLOF Teletext


(Teletext must be switched on.)

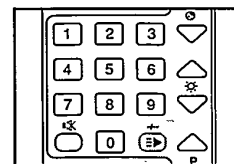
Selecting pages using the 'fast selection' buttons



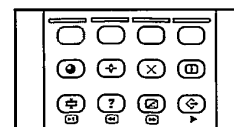
- Press the RED, GREEN, YELLOW or BLUE button in order to select the subject in the corresponding colour (e.g. Weather Chart, Tennis, TV index, etc.) from the information line.
> The page on the subject in question appears and a new information line appears at the bottom of the screen.

Selecting the next page number

- Press .
- > The next page appears immediately (e.g. page 121 appears after page 120).



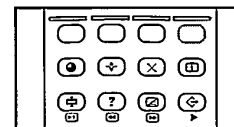
Do a white — in a red box and a dark blue + in a light blue box appear in the information line?



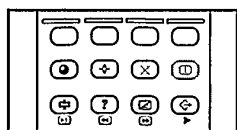
- Press the RED button to display the previous page number.

or

- Press the BLUE button to display the following page number.



Recalling the index



- Press **I** once or more until the index reappears.

Also read 'Special Teletext functions' and 'Storing personal preference pages'.

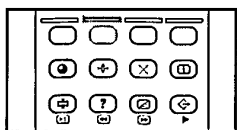
Using TOP Teletext

(Teletext must be switched on.)

Selecting pages using the 'fast selection' buttons

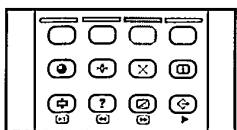
The pages transmitted are divided into large groups (headings) by the TV station.

In turn, the headings are divided into small groups (subjects).



Selecting a heading

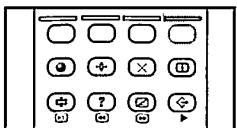
- Press the GREEN button until the required heading appears on the screen.
- > The next heading appears in green in the information line.
- > After the last heading has been selected the first heading reappears in the information line.



Selecting a subject

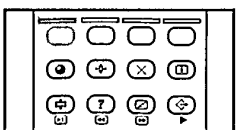
- Press the YELLOW button until the required subject appears.
- > The next subject appears in yellow in the information line.
- > After the last subject has been selected the first subject reappears in the information line.

If there is only one subject, the information line does not indicate a next subject.



Displaying the next page on this subject

- Press the BLUE button.
- > The following page on this subject appears (e.g. page 565 may appear after page 560).
- > After the last page has been selected the first page on this subject reappears in the information line.



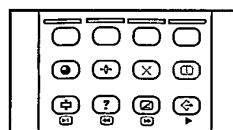
Displaying the previous page on this subject

- Press the RED button.
- > The previous page on this subject appears (e.g. page 400 may appear after page 410).
- > After the first page has been selected the last page on this subject reappears in the information line.

If there is only one page on the subject, no red or blue data is given in the information line.

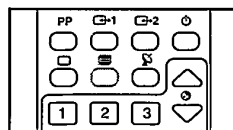
Recalling the index

- Press **I**.

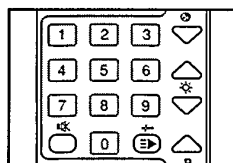


or

- Press **PP**.



Selecting pages using the digit buttons



- Select the required page number by pressing the digit buttons (always 3 digits, e.g. 650).
- > As soon as the first digit has been selected, for example the indication P6?? appears in the top left-hand corner of the screen. One or more ? indicate that the selection is not yet complete.
- > After the number has been selected, the page counter starts running until the page has been found and is shown on the screen.

If the page number selected appears in the top left-hand corner in red, this means that the page selected is not being transmitted.

- Select another page number.

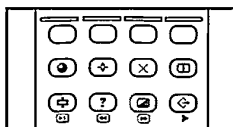
Also read 'Special Teletext functions' and 'Storing personal preference pages'.

Special Teletext functions

(Teletext must be switched on.)

These special functions can be used in all 3 Teletext systems.

Teletext and TV programme simultaneously

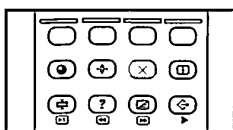


- Press **TV**.
- > The Teletext page appears over the TV programme.

Back to Teletext alone

- Press **TV** again.

Switching off Teletext temporarily

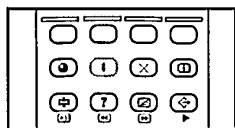


- Press **X**.
- > You now see the TV programme again.
- > The green LED TXT (on the TV) remains on.

Switching Teletext on again

- Press **X** again.

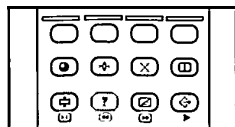
Selecting double letter height



- Press .
 - > The text height in the top half of the page has doubled.
- Press again.
 - > The text height in the bottom half of the page has doubled.
- Press again.
 - > The page is displayed with normal letter height again.

Displaying concealed information

Some pages contain concealed information, e.g. the solution to a riddle or a puzzle.



- Press .
 - > The concealed information appears.

Switching off the concealed information

- Press again.

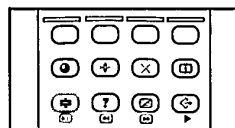
Displaying Teletext subtitles

Refer to your programme guide to check whether subtitles are being transmitted.

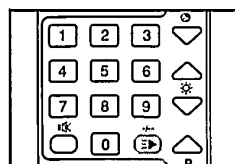
- Use the digit buttons to select the page mentioned in the guide.
 - > TV programme and subtitles appear.

Holding rotating pages

The selected page may have been divided into subpages. These subpages are rotated automatically (e.g. subpage 3/14 is automatically followed by 4/14, etc.).

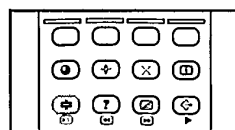


- Press .
 - > The subpage stays on the screen.
 - > HALT appears in the top right-hand corner.



Displaying the next subpage

- Press .
 - > The next subpage appears.



Cancelling page hold

- Press again.
 - > The subpages start to rotate again.

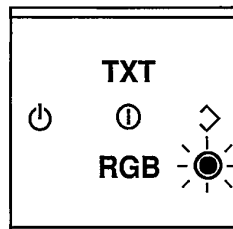
Storing personal preference pages

Irrespective of the TV station you are watching at the moment, you can store up to 20 frequently used Teletext pages (personal preference pages) and their corresponding programme numbers in a memory index.

After storing these pages, you can quickly display the page(s) stored after selecting the corresponding programme number.

Compiling the memory index

(Teletext does not have to be switched on.)



- Press (on the TV).

> The language selection menu appears.

LANGUAGE SELECTION	
1	ENGLISH
2	DEUTSCH
3	FRANCAIS
4	ITALIANO
5	NEDERLANDS
select: 1-5 stop: off	

- Select the desired language.
 - > The INSTALLATION menu appears.

INSTALLATION	
1	PROGRAMMES
2	A/V CONNECTIONS
3	TXT PAGE NUMBERS
4	STORE PERSONAL PREFERENCE
5	D2B A/V CONNECTIONS
select: 1-5 back: menu stop: off	

- Select the digit for TXT PAGE NUMBERS.
 - > The submenu appears.

TXT PAGE NUMBERS	
1	SELECT
2	STORE
select: 1-2 back: menu stop: off	

- Press 1 for SELECT.
 - > The index appears.
 - > The first line is indicated by a red bar.

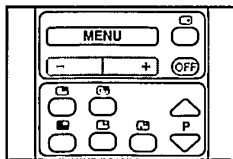
[illegible]

- Repeat this operation to enter the following programme and page numbers.

Adding/inserting lines in the index (If the index is not full yet.)

PROGRAMME	PAGE
01	101
01	107
01	116
01	134
03	204
03	214
03	226
03	236
04	242
04	256
..	...
..	...
..	...
..	...
..	...
..	...
..	...
..	...
..	...
..	...

select: 0-9 , - , + back: menu

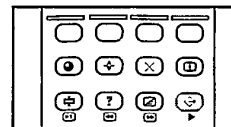
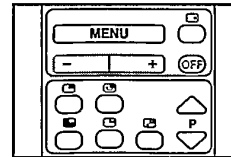


- Now follow the procedure described in 'Storing data in the memory'.**

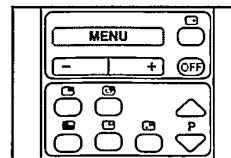
PROGRAMME	PAGE
01	101
01	107
01	116
01	134
03	204
03	214
03	226
03	236
04	242
04	256
..	...
..	...
..	...
..	...
..	...
..	...
..	...
..	...
..	...
..	...
..	...

select: 0-9, -, + back: menu

- Press \leftrightarrow .
- > The data on the line are now erased.
- Enter the new data.



Storing data in the memory




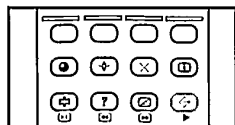
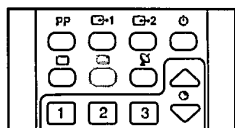
-



Displaying personal preference pages

Personal preference pages can be recalled from the memory index in two ways:




1. Displaying pages consecutively (Teletext should be switched off first.)

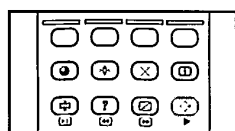
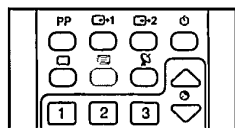
- Select one of the programme numbers for which page numbers have been stored.
- Press  to switch Teletext on again.




- Press  to display the first page number stored for this programme number.
- Press  to select the following page numbers for this programme number.

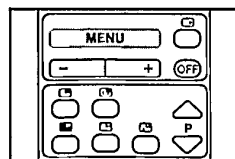
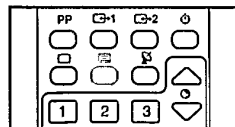
Displaying teletext pages of the other programme numbers

- Press  to switch off Teletext.
- Select the next programme number for which page numbers have been stored.
- Press  again to switch Teletext on again.
- Press  to display the page numbers for this programme number.

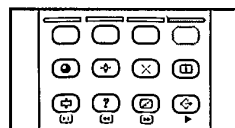


2. Displaying pages using the 'fast selection' buttons (Teletext should first be switched off.)

- Select one of the programme numbers for which page numbers have been stored.
- Press  to switch Teletext on again.

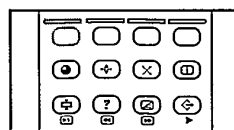


- Press MENU to display the first page for this programme number.
- > The following data appears in the information line:
 - the previous page which can be displayed, in RED ('- xxx').
 - the page shown on the screen, in white ('<--yyy-->').
 - the following page which can be displayed, in BLUE ('zzz +').



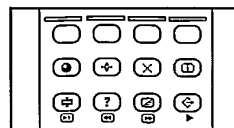
Displaying the following page

- Press the BLUE button.
- > If the last page from the memory index is shown on the screen the first page from the index may appear after the BLUE button has been pressed.



Displaying the previous page

- Press the RED button.
- > If the first page from the memory index is shown on the screen the last page from the index may appear after the RED button has been pressed.



Recalling the first page

- Press .

If one of the personal preference pages is composed of subpages these subpages do not rotate automatically.

PIP (PICTURE IN PICTURE)

6

With this function you can call up a PIP screen (mini picture) in the main screen (TV picture).

Possible PIP screens are:

If NO PIP source (video equipment) has been connected

- the PIP screen is the same as the main screen.



If a PIP source has been connected

Video recorder connected:

- in the PIP screen the pictures received by the video recorder (TV programmes) or the pictures being recorded or played back (video cassettes) appear.

Camcorder connected:

- in the PIP screen the pictures played back or recorded by the Camcorder appear.

CDV player connected:

- in the PIP screen the pictures played back by the CDV player appear.

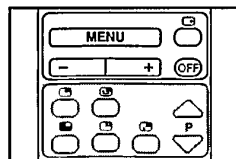
All pictures of equipment, connected via

- EXTERNAL 1 (= EXT1),
- VIDEO EXTERNAL 2 and R AUDIO OUT/IN L VIDEO OUT/IN (= EXT2),
- S.VHS/R and L AUDIO INPUT (behind the lid on the front) (= EXT3) can be displayed via the PIP screen.



For information about connecting the equipment, see the chapter 'Connections'.

PIP buttons on the remote control

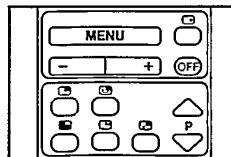


- Switching PIP on/off
- Moving PIP screen
- Selecting PIP source
- Still picture in the PIP screen
- Exchanging PIP screen with main screen
- Selecting higher/lower programme number in the PIP screen

Operating PIP

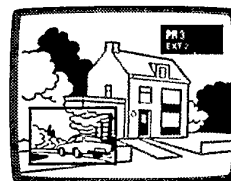
As soon as PIP is switched on, also a black frame appears. In the top line the indication of the main screen appears in large letters (e.g. PR 1 BBC1). In the bottom line the indication of the PIP screen appears in small letters (e.g. PR 1 BBC1, EXT1 CDV, EXT2 VIDEO, EXT3 SVHS).

Switching on PIP



- Press .

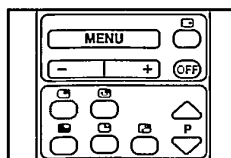
> The PIP screen appears in the main screen on the last chosen corner (e.g. in the top right) and is from the last chosen PIP source (e.g. video recorder) or is the same as the main screen.



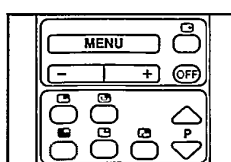
Switching off PIP

- Press again.

Selecting a PIP source



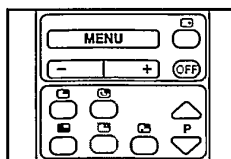
- If necessary, press to switch on PIP.



- Press until the indication for the PIP source appears in the black frame (e.g. EXT1, EXT2 or EXT3).

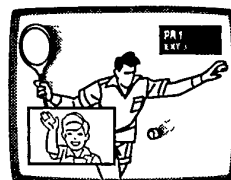
Still picture in the PIP screen

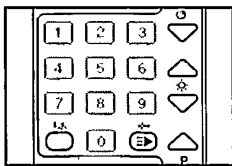
a. Displaying a still picture from the connected equipment via the PIP screen



- Press .


> The picture in the PIP screen stands still, although the connected equipment continues to operate.





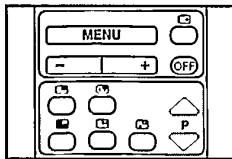
- If desired, you can use the digit buttons to select another TV programme for the main screen.

- If desired, you can use the programme selection buttons on the video recorder to select another TV programme for the PIP screen.


Have you used  to exchange the main screen with the PIP screen?


- If desired, use the programme selection buttons on the video recorder to select another TV programme for the main screen.

- If desired, use the PIP buttons P Δ / ∇ to select another TV programme for the PIP screen.




Example 2: Video recorder is used for playback or recording

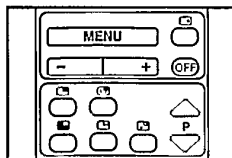
- If necessary, press  to switch on PIP.

- Press  until the indication for the video recorder appears in the black frame.
> The pictures from the video recorder appear in the PIP screen.


- If desired, you can use the digit buttons on the remote control to select another TV programme for the main screen.
> The PIP screen remains the same.


Have you used  to exchange the main screen with the PIP screen?

- Use the PIP buttons P Δ / ∇ to select another TV programme for the PIP screen.
> The main screen remains the same.



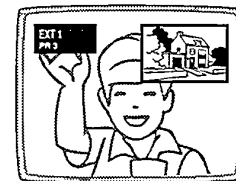
Example 3: Displaying pictures from the Camcorder, Computer or CDV player

- If necessary, press  to switch on PIP.


- Press  until the indication for the connected equipment appears (EXT1).

- Switch on the equipment.

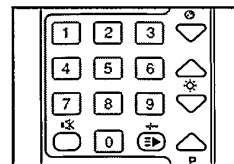
> It is possible that the pictures of the equipment automatically appear **on the main screen** and that the TV programme appears on the PIP screen.




- If desired, use the PIP buttons P Δ / ∇ to select another TV programme for the PIP screen.
> The main screen remains the same.

Have you used  to exchange the main screen with the PIP screen?

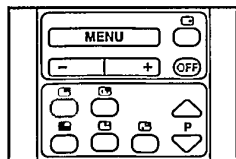
- Use the digit buttons to select another TV programme on the main screen.
> The PIP screen remains the same.




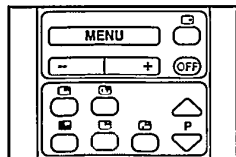
- Press  again or select another PIP source to cancel the still picture.

b. Displaying a still picture from the main screen via the PIP screen

While watching TV, every picture can be shown as a still picture via the PIP screen.

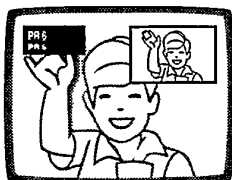




- Press  to switch off PIP temporarily.



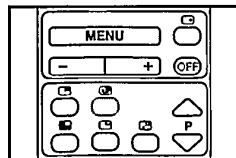
- Press .

> PIP is automatically switched on and the picture of the main screen is shown as still picture via the PIP screen.



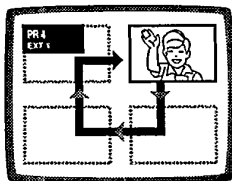
- Press  again.
> The pictures of the PIP screen are the same as the main screen again.
- Press  again to switch off the PIP screen.

Moving the PIP screen

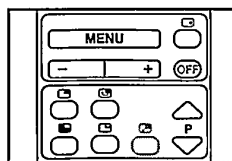


- Press .

> Each time you press this button, the PIP screen moves to one of the other corners of the main screen.

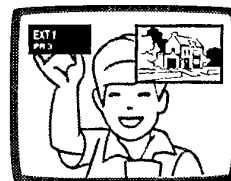



Exchanging the PIP screen with the main screen

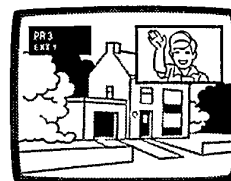


- Press .

> The main screen (e.g. a TV programme) is shown via the PIP screen and vice versa.
> In the black frame, the indications for the main screen and the PIP screen are also exchanged.

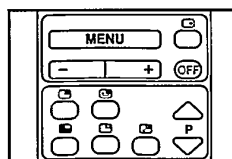



- If desired, you can use the digit buttons to select another TV programme you want to watch via the PIP screen.
> The main screen remains the same.
- Press  again the exchange the screens again.

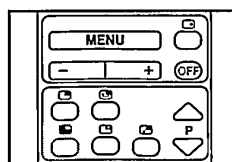



General PIP examples

Example 1: Video recorder is on standby

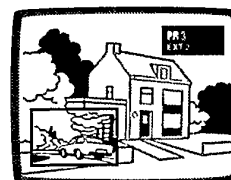


- If necessary, press  to switch on PIP.



- Press  until the indication for the video recorder appears in the black frame (e.g. EXT2 VIDEO or EXT3 SVHS).

- Using the programme selection buttons on the video recorder, select the TV programme you want to watch via the PIP screen.
> In the main screen you will see the TV programme and in the PIP screen you will see the TV programme from the video recorder.




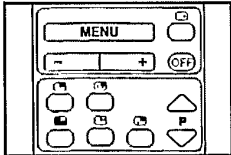
PIP + D2B examples



Note!



- D2B equipment should be connected (see Section 2).
- The TV must be initialised (if required, follow first the steps in Section 3 'Initialising the D2B system').

Example 1:

The D2B equipment connected via Euroconnector VIDEO EXTERNAL 2  (e.g. video recorder) must have a tuner of its own, with which TV stations can be received.




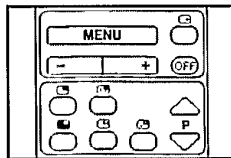
- Press P  or .
- > The TV checks whether a tuner is connected and automatically switches PIP on.
- > EXT2 and the programme of a TV station appear on the TV screen.


- Press P  or  again until the TV programme that want to watch on the PIP screen appears.

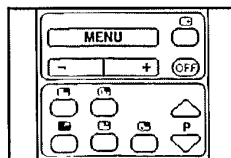



Example 2:

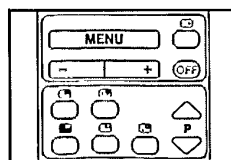
The D2B equipment connected via Euroconnector EXTERNAL 1  must have its own tuner, with which TV stations can be received.





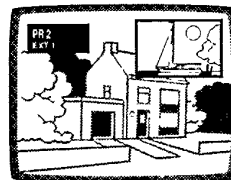
- If required, press  to switch PIP on.





- Press  to select EXT1.



- Press P  or  to select the TV programme you want to watch on the PIP screen.



Example 3:

- You are watching a TV programme on the main screen (e.g. PR1).
- A video recorder connected via VIDEO EXTERNAL 2  records pictures from a video recorder connected to EXTERNAL 1  (e.g. from a CD video player).

It is now **not** possible to put the TV on standby.

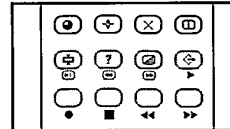
However, you **can** select another TV programme for the main screen.









GENERAL INFORMATION

Operating the video recorder by means of the remote control

(Only for video recorders from our range.)

- Keep the button on the side of the remote control pressed and press one of the following VCR buttons at the same time:

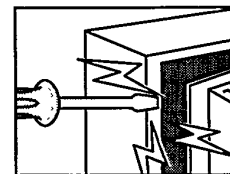


-  For picture-by-picture playback
-  for picture search reverse
-  for picture search forward
-  for playback
-  for recording
-  for stopping
-  for rewinding
-  for winding.

Cleaning the TV screen


- For cleaning, use a damp shammy leather.
- **Never** use an abrasive.

Remedying faults



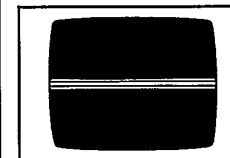
- **Never** try to repair a faulty TV yourself. Consult qualified service personnel.

You may check the following:

- has the aerial been connected correctly?
 - have the loudspeakers been connected correctly?
 - have the correct buttons been pressed or has the correct menu been selected?
 - has the transmission of the TV station ended?
 - has the correct position, EXT1, EXT2 or EXT3, been selected for the connected equipment?
 - have you switched back to TV programmes?
 - has the sound temporarily been muted with .
- In some cases it may help if you switch the TV off and back on again.
- If a LED flashes although no button on the TV or the remote control is being pressed you can switch the TV off and on again. If this does not help consult qualified service personnel.

Fault indications

Switch off the TV and consult qualified service personnel when the following indications appear:



- ERROR and a digit.
- A horizontal bright white stripe right across the screen.

D2B error messages

When this TV is switched on or when a D2B function is used, an ERROR message may appear on the screen for a few seconds (D2B ERROR No. 1, No. 2, No. 3, etc.).

You can only deal with the fault yourself if D2B ERROR No. 1 or No. 2 appears. See below.

Remedying D2B errors yourself

If error message D2B ERROR No. 1 or No. 2 appears, it is **SOMETIMES** possible to deal with the fault yourself.

Below we give you hints on how to check whether you can deal with the fault yourself. If you cannot deal with the fault, you should consult your dealer.

Situation 1: You have no D2B equipment and also no D2B cable connected to this TV

- Remove any connected D2B cable.
- Switch the TV off and on again.

If the error message D2B ERROR No. 1 still appears, it is **not** possible to deal with the fault yourself. Consult your dealer before you connect D2B equipment and are going to make use of the advantages of the D2B. You can still use the normal TV functions.

Situation 2: You have already connected D2B equipment to this TV

In this situation the error message D2B ERROR No. 1 or No. 2 appears, you may **possibly** be able to deal with the fault yourself. If another error message appears (e.g. D2B ERROR No. 3), you should first consult your dealer before making use of the advantages of D2B.

You can still use the normal TV functions.

- Ⓐ ● Switch all connected D2B equipment off (there should be no power supply connected).
- Check whether the D2B cables are connected properly (see 'Connecting the TV' in Section 1).
 - Switch all D2B equipment on again.

> If the error message no longer appears, the problem has been solved.

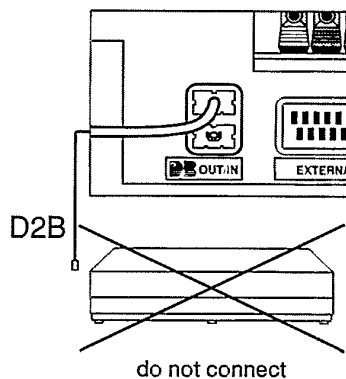
> If D2B ERROR No. 1 appears again after switching on, continue with step Ⓑ.

- Ⓑ ● Switch off all connected D2B equipment.
- Remove all D2B cables.
 - Switch all D2B equipment on again **one by one**.

> If one of the D2B units shows an error message (see operating instructions of the unit), you should consult the dealer of the equipment concerned.

> If **no** error message appears on any of the units, all D2B units are working properly, but the fault may be caused by one of the D2B cables. Continue with step Ⓒ in order to check the D2B cables.

- Ⓒ ● Switch the TV off.
- Take the first D2B cable you are going to check.
 - Connect this to the TV (see diagram)



- Switch the TV on again.
- > If D2B ERROR No. 1 appears, this cable is **faulty** and should be replaced.

> If the error message does **not** appear, this cable is **not faulty**.

- Check all D2B cables in the way described above and if necessary replace defective cables.

Situation 3: D2B equipment connected and D2B ERROR No. 2 appears

In this case the fault is **not** caused by the TV, but by the D2B cable(s) or one of the connected D2B units.

- Ⓐ ● Switch all connected D2B equipment off (there should be no power supply connected).
- Check that the D2B cables are connected properly (see 'Connecting the TV' in Section 1).
 - Switch all D2B units on again.
 - Repeat the same function you had chosen before D2B ERROR No. 2 appeared.

> If the error message no longer appears, the problem has been solved.

> If D2B ERROR No. 2 appears again, continue with step Ⓑ.

- Ⓑ ● Check that **all** connected D2B units are switched on.
- If this is not the case, switch them on.

> If the error message does not appear, the problem has been solved.

> If D2B ERROR No. 2 appears again, continue with step Ⓒ.

- Ⓒ If during initialisation of the system certain D2B equipment was connected, this equipment should now still be connected.

> If the situation is **the same**, you should test the D2B cables as described in step Ⓐ.

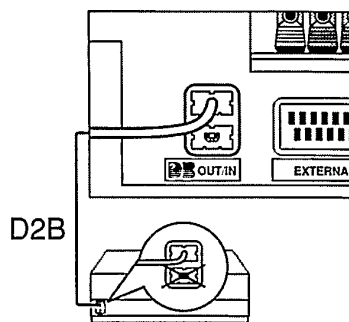
> If the situation has **changed**, you should specify the new situation to the TV, as described below:

- Press \triangleright (on the TV).
- > The 'Language selection' menu appears.

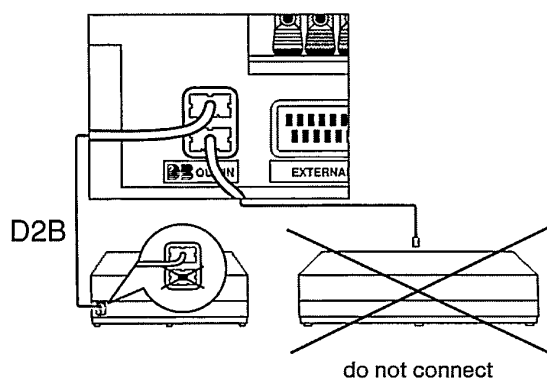
- Select the correct language.
- > The INSTALLATION menu appears.

- Select the digit for D2B A/V CONNECTIONS.
- > The new situation is again stored in the memory.

- ④ ● Remove all D2B cables.
One D2B cable is supplied with each D2B unit. You need 2 D2B cables to test a cable.
- Take the first D2B cable to be tested and connect it with one of the D2B units (see diagram).



- Take the other D2B cable and also connect this, **however only to the TV** (see diagram).



- Switch the TV off and on again.
- > If no error message appears, the D2B cable tested is not faulty.
 - > If D2B ERROR No. 1 appears, the cable is faulty and should be replaced.
- Check all D2B cables in the way described above and replace the defective cables if necessary.

- (GB) IDENTITY CARD** This card, together with the terms of guarantee (to be provided by your dealer), forms the full certificate of guarantee for this appliance
- (D) GERÄTE-KENNKARTE** Diese Karte ist, zusammen mit den Garantiebestimmungen, die Ihr Händler Ihnen aushändigt, Ihr Garantieschein für dieses Gerät
- (F) CARTE D'IDENTIFICATION** Associée aux conditions de garantie (qui vous sont remises par le revendeur), cette carte constitue le certificat de garantie de cet appareil
- (NL) IDENTIFICATIEKAART** Deze kaart vormt, samen met de garantievoorwaarden (welke door uw dealer verstrekt worden), het garantiebewijs voor dit apparaat
- (I) CARTE D'IDENTIFICAZIONE** Questa cartolina rappresenta insieme alle condizioni di garanzia (da consegnare dal vostro rivenditore) il documento di garanzia per questo apparecchio
- (E) TARJETA DE IDENTIFICACIÓN** La garantía de este aparato se compone de esta tarjeta y de las condiciones de garantía que le entregará su concesionario
- (P) CARTÃO DE IDENTIFICAÇÃO** Este cartão, em conjunto com as condições de garantia em vigor (explicadas pelo seu vendedor) constituem o certificado de garantia do seu aparelho
- (DK) I.D. KORT** Dette kort, udfyldt af Deres forhandler, er tilstrækkelig garantidokumentation for dette apparat
- (N) IDENTIFIKA-SJÖSKORT** Dette kort, sammen med garantibetingelsene (som De får av forhandleren) utgjør garantibeviset for dette apparat
- (S) IDENTIFIERINGS-KORT** Detta kort tillsammans med garantivilkoren, som Du får av radiohandlaren, utgör ett fullständigt garantibevis för denna produkt
- (SF) TUNNISTUS-KORTTI** Tämän laitteen takuutodistus muodostuu tästä kortista ja takuehdoista (jälleenmyyjä antaa mukaan)
- (GR) ΔΕΛΤΙΟ ΤΑΥΤΟΤΗΤΑΣ** Η καρτέλα αυτή μαζί με τους όρους εγγύησης (που θα παρέχονται από το κατάστημα που αγοράσατε τη συσκευή) αποτελούν το πλήρες ή αποσπώσιμο έγγραφο της εγγύησης σας

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