

GRUNDIG

COLOR TELEVISION

ARGANTO 70

MW 70-510/8 A DPL



ENGLISH

21956-941.0700

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ARGANTO 70 MW 70-510/8 A DPL_____

Special features of your TV set

Technology

Super flat 70 cm colour picture tube (visible picture: 66 cm)
Impressive 16:9 cinemascope format
100 Hertz technology

GRUNDIG Megalogic

Megalogic possibilities:

- Perfect compatibility with the Megalogic video recorder. No troublesome programming of channel positions.
- By starting playback on the video recorder, the video programme position on the TV set will be automatically selected.

Equipment

Dolby ProLogic *
VGA interface for connecting a PC
Megatext, level 2.5, 512-page memory
Easy Dialog System

Retrofit options

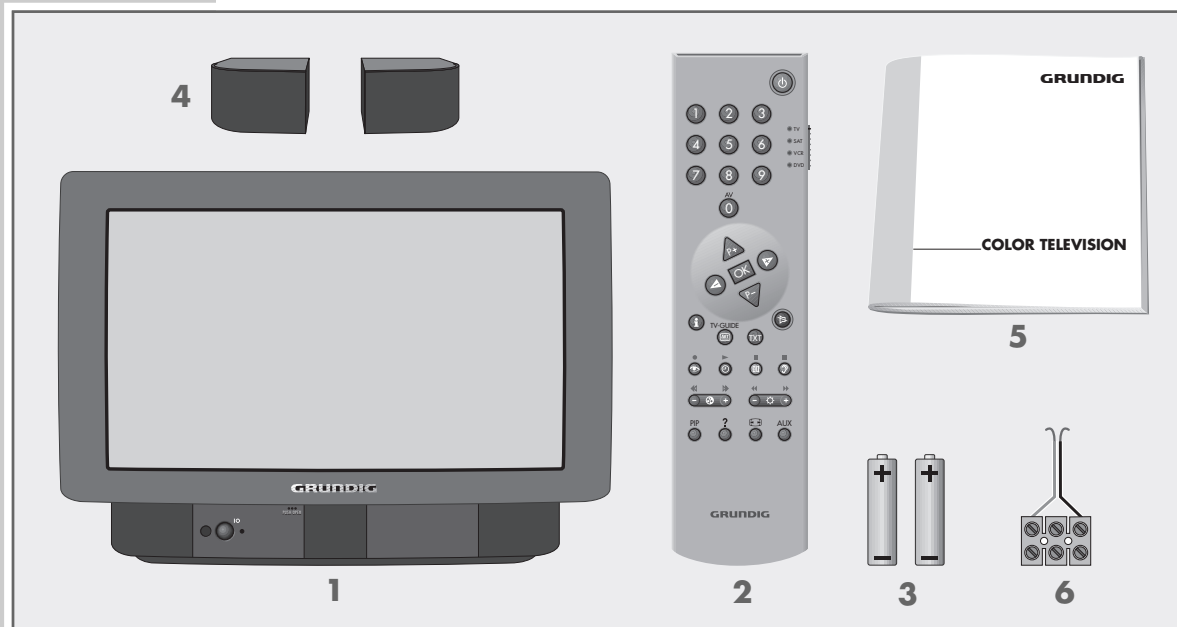
Satellite receiver
Removable decorative frame

* Under license from Dolby Laboratories Licensing Corporation. "DOLBY" and the double-D symbol  are trademarks of Dolby Laboratories Licensing Corporation.

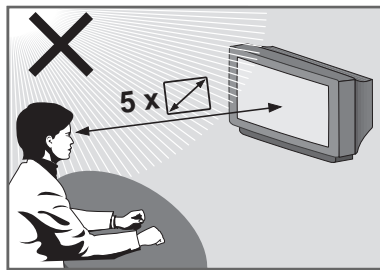
ARGANTO 70 MW 70-510/8 A DPL

Scope of delivery

- 1 TV set Arganto 70 MW 70-510/8 a DPL
- 2 Remote control
- 3 2 batteries, 1.5 V-, Mignon (AA)
- 4 2 surround loudspeakers
- 5 User manual
- 6 Connection cable for surround loudspeakers



INSTALLATION AND SAFETY



In order to assure that this high-quality and easy-to-use TV set will be able to provide you with good service and pleasure for a long time to come, it is important that you observe the following points when installing the set.

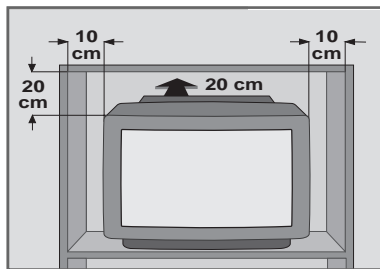
This set has been designed for the reception and reproduction of picture and sound signals.

Any other use is explicitly forbidden.

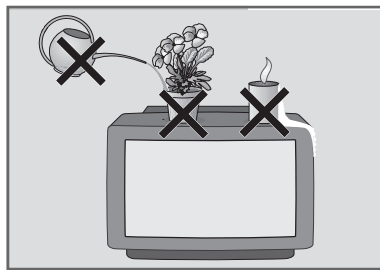
The ideal viewing distance from the screen is 5 times the diagonal width of the screen.

External light shining on the screen adversely affects picture quality.

Assure that there is enough space inside a cabinet.



The TV set is designated for operation in dry rooms. Should you nevertheless operate it outside, make absolutely sure that it is protected against dampness (rain, water splashes). Never expose the TV set to any sort of moisture.



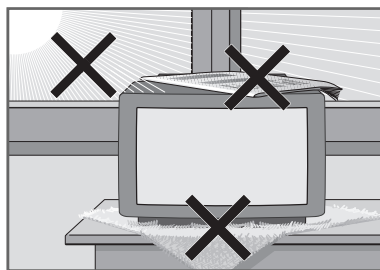
Do not place vessels filled with fluid (vases or similar things) on the TV set. The vessel may tip over and the fluid may adversely affect electrical safety.

Put the TV set on an even and hard surface. Do not place objects (for example, newspapers) on the TV set or place the set on a cloth cover, etc.

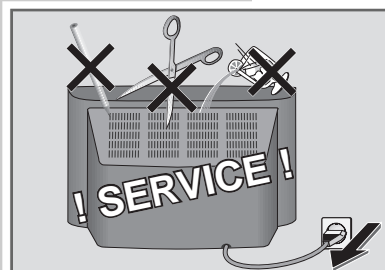
Do not place the TV set close to the heating or in direct sunshine as it could overheat.

Heat build-up can be dangerous and is detrimental to the service life of the equipment. From time to time, have a technician come to clean the inside of the set.

Keep the TV set away from magnetic fields (for example stereo speakers).



INSTALLATION AND SAFETY

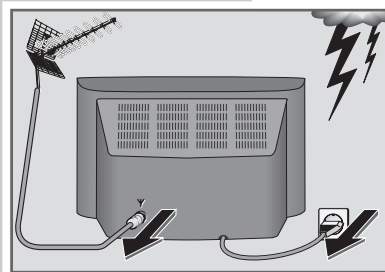


Do not open the TV set under any circumstance. The manufacturer will offer no liability for damage resulting from unauthorized tampering.

Be sure that the mains cable is not damaged at any time. It prevents mains interference and is an integral part of the device approval.

Storms represent a danger for every type of electrical device. Even if the set is switched off, it could be damaged by a lightning strike hitting the mains and/or the aerial lead. Therefore, always disconnect the mains plug and aerial plug when there is a storm.

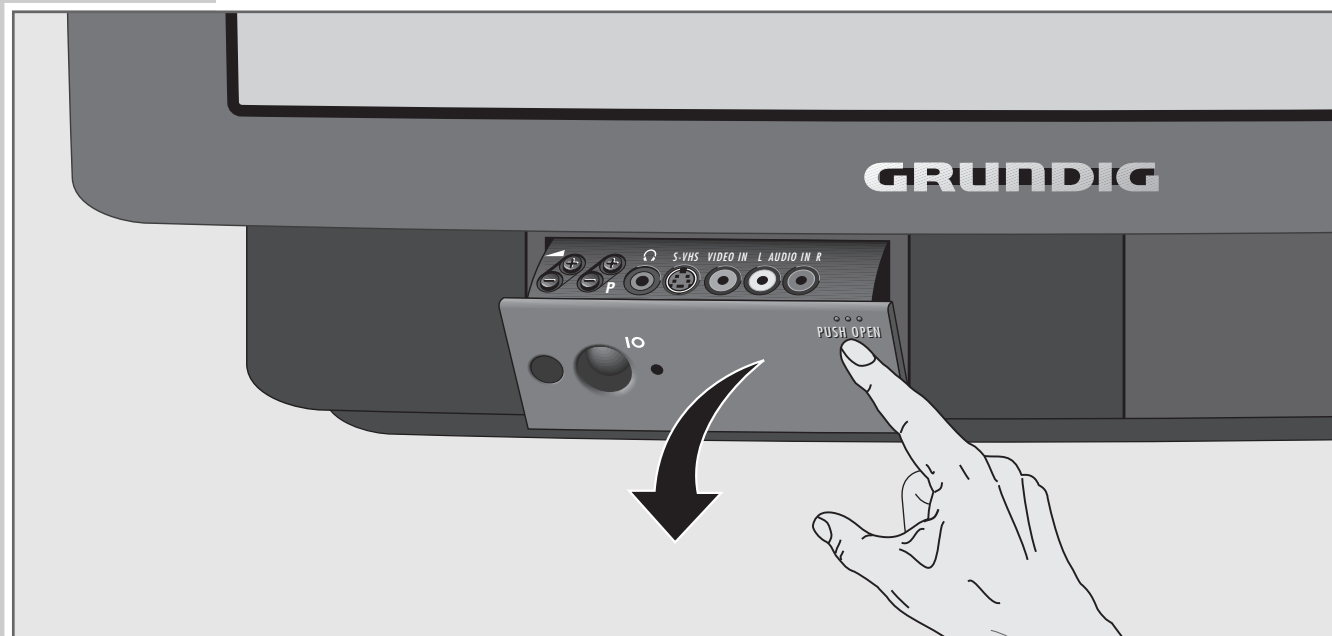
When cleaning the screen, use only a soft, damp cloth. Use only clean water.



This TV set combines technology and ecology in a well thought-out overall concept. Only ecologically high-quality materials are used. The packaging is made almost entirely of 100% recycled paper, and the portion of plastic has been reduced to a minimum. The batteries supplied have no mercury or cadmium. The number of plastic types has been reduced in order to ensure high-quality recycling when the set is put out of use – all larger plastic parts are marked. To facilitate maintenance work and recycling, this TV set is easy to disassemble.

AT A GLANCE

The front of the TV set



- ▲ +

Volume

- P +

Select channel up/down.



Switches the TV set on/off.

L AUDIO IN R

Audio input for camcorder.

VIDEO IN

Video input for camcorder.

SVHS

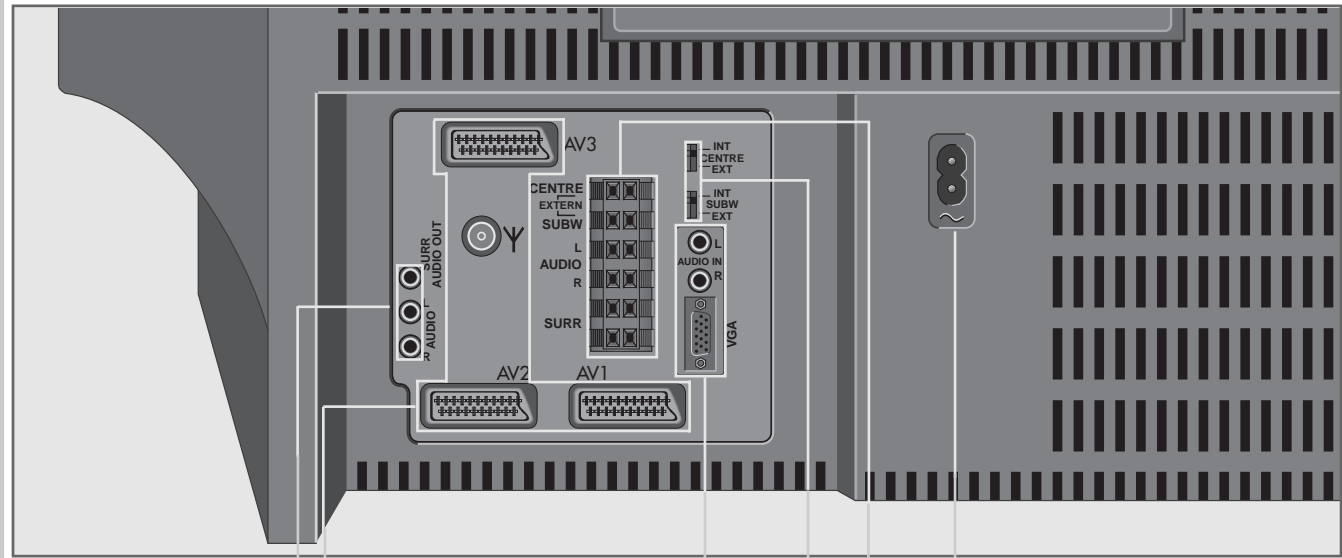
SVHS video input for camcorder.



Headphones connector

AT A GLANCE

The back of the TV set



Mains cable connection socket.

CENTRE

Clamping terminal for centre speaker.

SURR

Clamping terminals for surround speakers.

L AUDIO R

Clamping terminals for front speakers.

INT CENTER EXT

Jumper for centre loudspeaker.

INT SUBW. EXT

Jumper for subwoofer.

VGA / L AUDIO IN R

PC connection socket.

AV 1, AV2, AV3

Euro/AV sockets.



Aerial input (for house aerial).

R AUDIO L

Output sockets for hifi system.

SURR AUDIO OUT

Output sockets for active surround speakers.

AT A GLANCE

The remote control

You can use the TP 850 C remote control supplied not only with the TV set, but also with a video recorder, a satellite receiver and a DVD player.







Note:

Your TV set is equipped with a programmable remote control. Programming of the remote control is described from page 25.

Operating the TV set

To operate the television, move the slide-switch »**TV, SAT, VCR, DVD**« into the »**TV**« position.



-  Switches the TV set to standby.
- 1 ... 9**
0 AV Channel selection and switch on the TV set from standby, select AV position, enter teletext page numbers.
-  Switching on the TV set from standby (only »«), select channels step by step, cursor up/down.
-  Volume, cursor left/right.
- OK** Changes and activates various functions.
- i** Call up DIALOG CENTER (with »« and »**OK**«).
- AKT** TV-Guide, info about current broadcast.
- TXT** Teletext mode /TV mode switch-over.
-  Sound on/off (mute).

see next page

AT A GLANCE



Picture settings, calls up the »PICTURE SETTINGS« menu.

Clock time on/off.

Still picture.

Sound settings, calls up the »SOUND SETTINGS« menu.

Colour contrast.

Brightness.

PIP TV picture in teletext.

? Brief instructions

Picture format switch-over

AUX Preselection button for various functions.

AT A GLANCE













Operating a video recorder/satellite receiver/ DVD player

To control a GRUNDIG video recorder, set the slide-switch
»TV, SAT, VCR, DVD« to »VCR«.

To control a GRUNDIG satellite receiver, set the slide-switch
»TV, SAT, VCR, DVD« to »SAT«.

To control a GRUNDIG DVD player, set the slide-switch
»TV, SAT, VCR, DVD« to »DVD«.

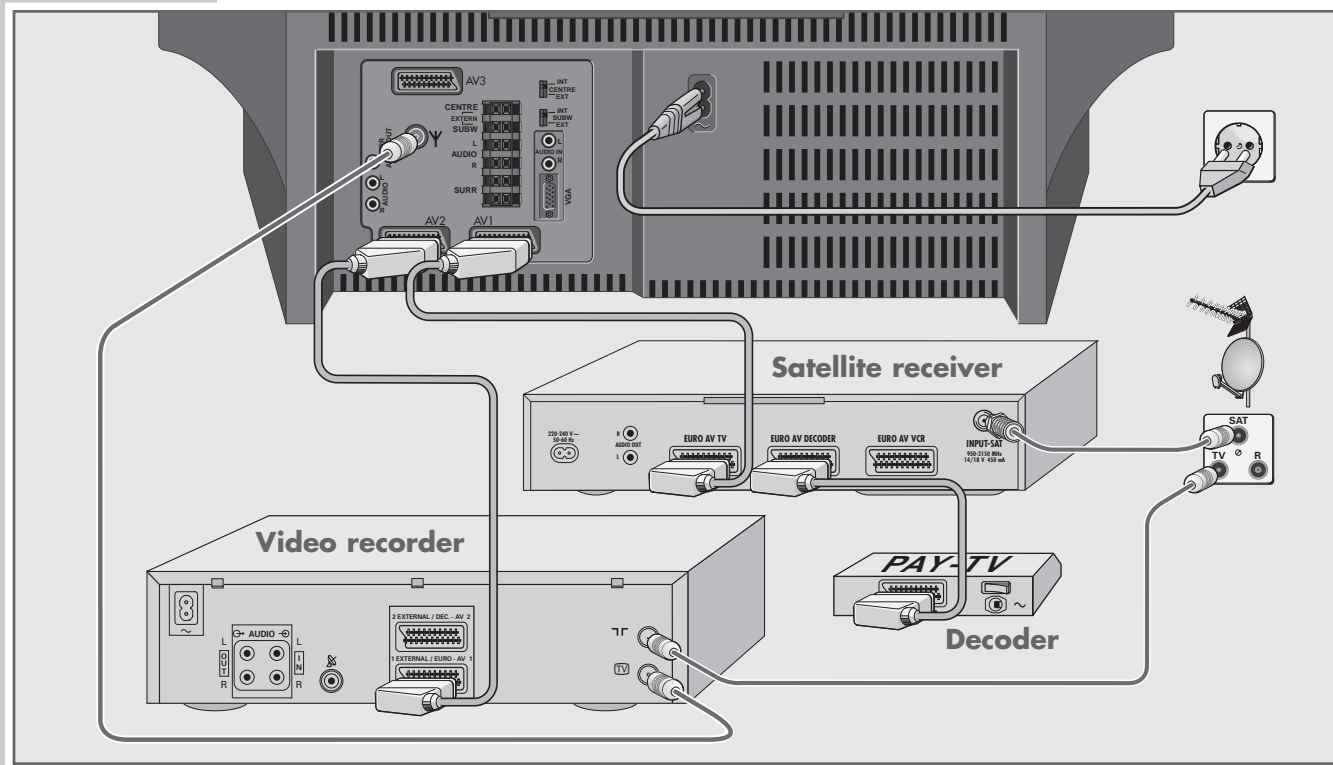
-  Switches to standby.
- 1 ... 0** Select channel positions and switch on from standby.
-  Select channels step by step.
-  Recording
-  Playback
-  Pause
-  Stop
-  Reverse picture search.
-  Forward picture search.
-  Fast reverse.
-  Fast forward.

Note:

Just try out which functions of your GRUNDIG device can be controlled.
Functions which cannot be controlled on your GRUNDIG device can easily
be programmed (see page 20).

CONNECTION AND PREPARATION

Sample connection with video recorder, satellite receiver and decoder



Note:

To see what possibilities your television has for connecting external devices, see the Easy Dialog System in the Audio/Video connections menu. Consult page 21 and onwards to see how to use the Easy Dialog System.

If your video recorder is equipped with Megalocic functions, the video recorder and the TV set must be connected with the AV-EURO cable which was included with the video recorder.

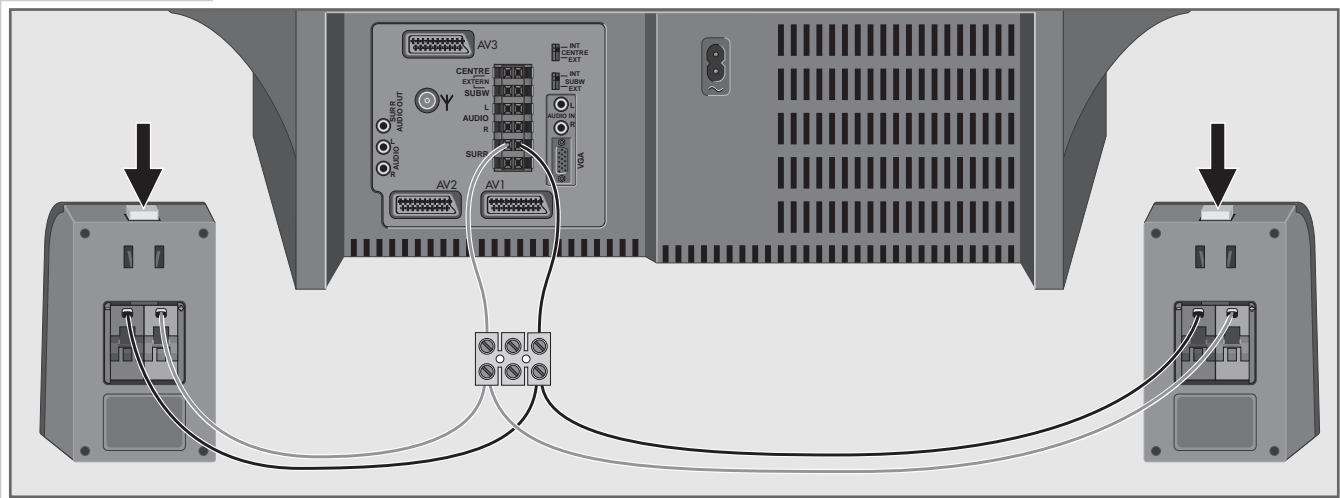
CONNECTION AND PREPARATION

Connecting speakers

For Dolby Surround ProLogic operation, you must connect the surround speakers supplied.

- 1 Connect the loudspeakers to the clamping terminals on the picture screen. Press down the clamping lever to insert the loudspeaker cable into the terminals. Insert the »-« core of the loudspeaker cable into the black (-) terminal and the »+« core (marked or coloured core) into the red terminal.

Connecting surround speakers (standard setting)



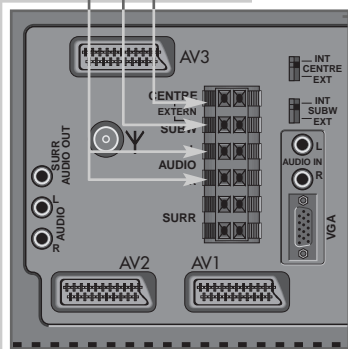
- 1 Connect the surround boxes supplied to the upper clamping terminal »**SURR**«.

Note:

If several speakers are connected to the »**SURR**« clamping terminal, be sure that the nominal impedance of 4 Ohms is reached.

CONNECTION AND PREPARATION

SUBW
L AUDIO R CENTRE



Connecting external speakers

- 1 Connect external front loudspeakers to the »L AUDIO R« clamping terminals.
- 2 Connect an external centre loudspeaker to the »EXTERN CENTRE« clamping terminal.
- 3 Connect an external subwoofer to the »EXTERN SUBW« clamping terminal.

Note:

If an external centre speaker is connected, the »INT CENTRE EXT« jumper must be positioned so that its notch points to the »EXT« position.

If an external subwoofer is connected, the »INT SUBW EXT« jumper must be positioned so that its notch points to the »EXT« position.

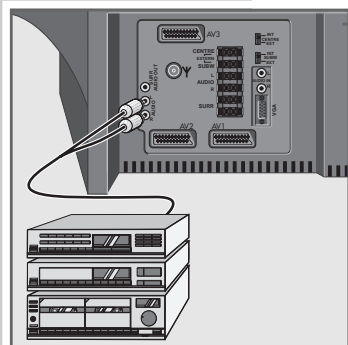
Connecting a hifi system or active loudspeakers (left, right, surround)

Instead of using the television speakers as front speakers, you can use the loudspeakers of your hifi system or active front speakers.

- 1 Connect the hifi system or the active left/right speakers to the »L AUDIO R« Cinch sockets.
- 2 Connect the active external surround loudspeakers to the »SURRE AUDIO OUT« Cinch socket.

Note:

It is possible to connect a wireless surround system (optional accessory) for the wireless transmission of the surround channel instead of the active surround loudspeakers.



CONNECTION AND PREPARATION

Connecting a PC (VGA)

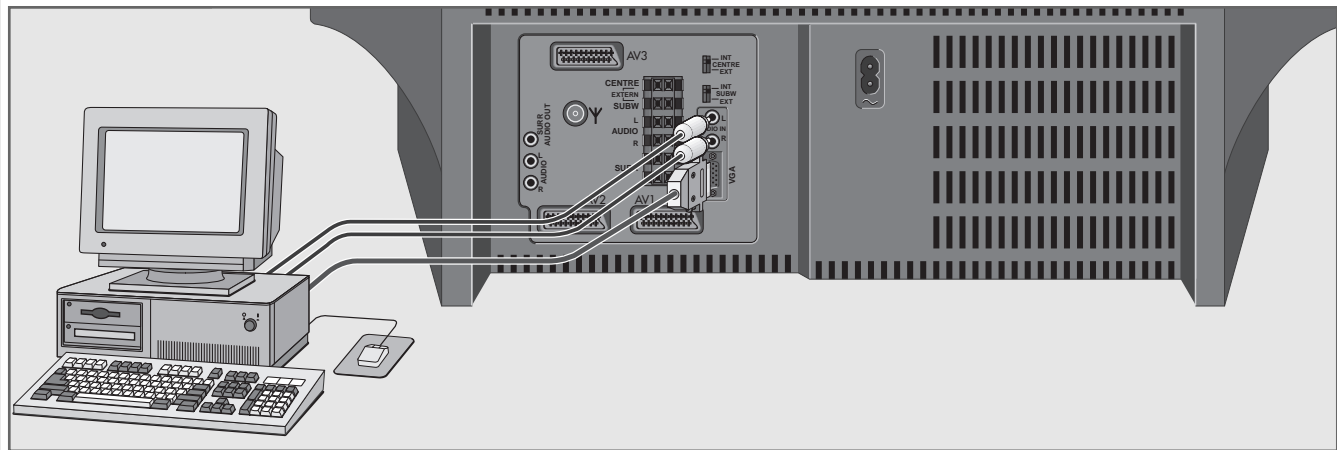
You can use the TV set as a PC monitor.

The television set can set itself to the following input signals:

640 x 480 Pixel, 60 Hz/31.5 kHz

640 x 400 Pixel, 70 Hz/31.5 kHz

640 x 350 Pixel, 70 Hz/31.5 kHz



- 1 Connect the VGA source (e.g. computer, games console) to the »VGA« socket using a commercially available VGA cable.
- 2 Connect the computer's audio output (if available) to the »AUDIO« sockets using a commercially available Cinch cable.

Note:

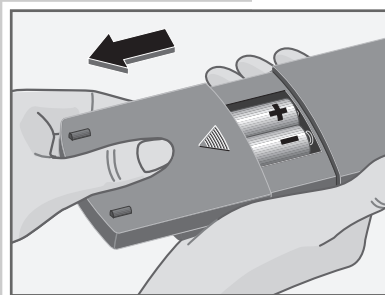
One of the above-mentioned resolutions must be set on the PC (see the PC's system control).

The display of a connected laptop computer must be switched off (using the keyboard or the laptop's system control; see the operating manual of the laptop).

When using a laptop, it has to be first connected and then switched on.

CONNECTION AND PREPARATION

Putting batteries into the remote control



- 1 Open the battery compartment by pulling off the cover.
- 2 Insert the batteries (Mignon, i.e. UM-3 or AA, 2 x 1.5 V). Observe the polarity when inserting the batteries.

Note:

If your television does not react to the remote control commands correctly, then the batteries could be used up. Remove empty batteries. There is no liability for damage caused by leaking batteries.

Environmental note:

The batteries – even those free of heavy metal – cannot be disposed of in normal household rubbish. Used batteries must be disposed of in used battery collection containers in businesses or be taken to public waste disposal facilities.

Switching the TV set on/off

An LED next to the mains switch indicates the current operating mode by a corresponding colour.

- Green** = Operation.
- Yellow** = TV GUIDE mode (approx. 1/2 h after the TV set has been switched off, to load the programme data), copy mode.
- Red** = Standby (energy saving mode, timer programmed).

Switching the TV set on

- 1 Press »IO« on the TV set.
The TV picture appears on the screen.

Switching the TV set to standby

- 1 Press »⏻« on the remote control once.

Switching the TV set off definitely

- 1 Press »IO« on the TV set, or
press »⏻« on the remote control twice.

Condition:

The ecologic switch must be activated (Dialog Centre, »Special Functions« menu).

Note:

The ecologic switch is not activated if a timer is programmed or the copy mode activated.

Switching on again is only possible with »IO« on the TV set.

Programming TV channels

The TV set is equipped with the automatic tuning system "ATS euro plus" which carries out channel position assignment for you.

- 1 After switching on the TV set, select the »English« dialog language and confirm with »OK«.

Note:

If the »Select dialog language« page does not appear, press »i« and then »OK« to display the Dialog Centre menu.

Use »+« or »-« to select the »AUTOMATIC PROGRAMMING« row then confirm with »OK«.

Use »+« or »-« to select the »Complete Reprogramming when moving house« row then confirm with »OK«.

- 2 Confirm your country with »OK«.

The automatic tuning system is started. Depending on the number of channels which can be received, the search can take one minute and more.



- 3 When the automatic allocation of the channel positions is completed, a table with information about the installation menu is displayed.
- 4 Press »TXT« to exit this table.

The »INSTALLATION« menu is displayed.

Setting the Dolby level

Note:

If you do not operate the TV set with the standard loudspeaker configuration (left/right, centre, surround), select the »Speaker configuration« menu prior to setting the Dolby level and select there the loudspeakers connected.

- 1 Use the »« or »« button to select the »Dolby level adjustment« row then confirm with »**OK**«.
- 2 Adjust the same volume level for all loudspeakers.
- 3 End the setting with »**TXT**«.
A table with information about the Easy Dialog System appears.
- 4 Press »**TXT**« to switch to TV operation.

Note:

It is possible to call up all functions of the »INSTALLATION« menu also later in the Easy Dialog Centre under »INSTALLATION«.

EASY DIALOG SYSTEM

The Easy Dialog System

Your TV set is equipped with the Easy Dialog System. That means that operating instructions are not, as is usual, in a printed manual, but rather appear on the screen as dialog fields.

The Dialog Centre

The Dialog Centre is the control centre for your TV set. Here you can make a variety of settings, call up information, and get specific help for operating your television (e.g. info about the remote control, a list of key words, tips and tricks). Just try it out. You can't do anything wrong.

- 1 Call up the Dialog Centre witht »i« and then »OK«.



– At every step of operation, the dialog symbols show which buttons can be used to carry out particular functions.

EASY DIALOG SYSTEM

Operating the Easy Dialog System



Move the yellow bar up/down.
With two-paged menus, the second page will be turned to.



OK

Change settings.
Calls up or confirms selected functions.

TXT

Back to TV picture.

i

Access to the Dialog Centre (with »**i**« and »**OK**«),
one page back.

?

Calls up brief instructions.

PROGRAMMING THE REMOTE CONTROL

You can use the TP 850 C remote control not only with the TV set, but also with a video recorder, a satellite receiver and a DVD player.

The remote control is programmed in the factory for GRUNDIG appliances (and those of the same construction).

The TP 850 C can “learn” the remote control commands from any infrared-controlled appliance (also from other companies). These remote control commands are for the function levels for satellite receivers (SAT), video recorders (VCR) and DVD players (DVD). For this, you need the other appliance’s remote control.

Note:

The TV function level is programmed only for GRUNDIG TV sets and cannot be reprogrammed.

In exceptional cases, it could happen that the TP 850 C can not learn the functions of an appliance made by an other company.

PROGRAMMING THE REMOTE CONTROL _____

Programming function levels



- 1 Move the slide-switch to the function level (SAT, VCR, DVD) you want to programme.
– The display of the selected function level lights up for about three seconds.
- 2 Simultaneously press »AUX« and »3« until the display of the selected function level lights continuously.
- 3 Point both remote controls at each other at a distance of about five centimeters.
- 4 On the TP 850 C, briefly press the button which is to be programmed.
The display of the selected function level flashes once.
- 5 Press the function button which is supposed to be learned on the original remote control until the display of the selected function level on the TP 850 flashes twice.

Note:

If the function could not be learned, all four displays on the TP 850 will flash twice. In this case, repeat steps **3** to **5**.

- 6 To finish the settings, simultaneously press »AUX« and »3«.
The display flashes twice.

PROGRAMMING THE REMOTE CONTROL _____

Reset

You can reset the remote control back to the settings it was given in the factory.

Resetting a function level

- 1 Move the slide-switch to the function level (SAT, VCR, DVD) which is supposed to be reset.
- 2 Simultaneously press »PIP« and »6« until the display of the selected function level flashes twice.

Resetting all function levels (except TV)

- 1 Move the slide-switch to the TV function level.
- 2 Simultaneously press »PIP« and »6« until the displays of the function levels »SAT«, »VCR«, »DVD« flash twice.

CUSTOMER INFORMATION

Technical data

Power supply voltage:

220 – 240 V, 50/60 Hz (control range of the power supply unit 190 ... 264 V)

Power consumption:

in operation, 140 W, in standby <5 W

Sound output stage:

Dolby operation: Stereo 5 channel 120 W music signal power divided in:

Front:	2 x 20 Watt music	2 x 10 Watt sine
Centre:	20 Watt music	10 Watt sine
Surround:	20 Watt music	10 Watt sine
Subwoofer:	40 Watt music	20 Watt sine

(in the appliance)

Without Dolby

Stereo 3-channel 80 W music signal power divided in:

Front:	2 x 20 Watt music	2 x 10 Watt sine
Subwoofer:	40 Watt music	20 Watt sine

Reception ranges:

C01 ... C99, special channels S01 ... S41

CUSTOMER INFORMATION

Service information for the specialized dealer:

The TV set may be operated only using the mains cable set supplied. It prevents mains interference and is an integral part of the appliance approval. For replacement purposes, please order only the mains cable set with the designation "GWN 9.22/part number 8290.991-316" from an approved after-sales service.

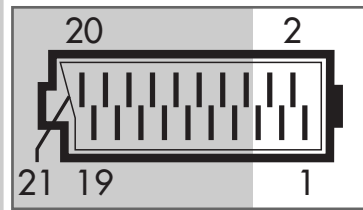
CE The product meets the requirements of the following EU guidelines:
73/23/EEC guideline on electrical equipment for use with certain voltage limits.
89/336/EEC guideline on electromagnetic compatibility.

The appliance complies with the standards:
EN 60065, EN 55013, EN 55020

CUSTOMER INFORMATION

Contact assignment for the EURO-AV socket

If you want to connect an other appliance to the TV set (e.g. computer, amplifier), your specialist dealer can establish a proper connection using the following connection table:



pin	signal
1	= audio output right
2	= audio input right
3	= audio output left
4	= audio ground
5	= blue ground
6	= audio input left
7	= RGB blue input
8	= switching voltage
9	= green ground
10	= data line (MEGALOGIC)
11	= RGB green input
12	= -
13	= red ground
14	= ground
15	= RGB red input (S Video = Chroma)
16	= RGB switching voltage
17	= video ground
18	= RGB switching voltage ground
19	= video output
20	= video input, (S Video = luminance)
21	= shielding/ground

CORRECTING PROBLEMS YOURSELF

If the remedies below do not lead to a good result, contact an authorised GRUNDIG dealer.

Please consider that problems can also be caused by external appliances, such as video recorders and satellite receivers.

Problem	Possible cause	Remedy
no picture, no audio	no mains voltage	mains cable connected? mains switch on?
	TV set in standby	switch on with remote control
	TV set is not on a occupied AV channel position	switch to another channel position
picture is bright (grainy or blue) but no programme can be seen	aerial cable	aerial cable connected? check aerial system?
	no TV channel programmed	start channel search
picture contrast	incorrect picture settings	change brightness, contrast, or color settings
	problem is with the broadcaster	test another channel
poor picture and/or sound	interference from other appliances (household appliances, mobile telephones etc.)	change the position of the appliances
double image, reflection	channel setting	automatic or manual channel setting/fine tuning
	aerial	have aerial cable or device checked
no color	color intensity is on minimum	adjust color upward
	TV standard setting (if setting possibility is available)	select proper color standards
	problem is with the broadcaster	test another channel

CORRECTING PROBLEMS YOURSELF

Problem	Possible cause	Remedy
colors wrong, color spots	strong magnetic field from speakers (or other)	increase distance of speaker to TV set with permanent color spots, switch off the TV set with the mains switch and switch back on after after 10 minutes
	problem with terrestrial magnetic field	change appliance position
picture is there, no sound	volume at minimum or speakers switched off	increase/switch on volume
	volume regulation activated via audio cinch socket (if this possibility is available)	select sound output via speaker
	problem is with the broadcaster	test another channel
sound unclear	SAT mode	check AV cable between TV set and receiver
	sound setting	correct sound setting
poor or no Teletext	TV channel (has no Teletext) or check aerial system	check with another channel, possibly double image or reflection or fine tuning
	transmission signal too weak (picture grainy)	check aerial system
remote control does not work	no optical connection	point remote control at the TV set
	remote control batteries	check or replace the batteries pay attention to polarity
	undefinable operating mode	switch off TV set with the main power button for about 2 minutes
After switching on, "child lock" appears on the menu	child lock is activated	enter secret number or number combination 7038580.