

SAMSUNG CB-5051

colour television with On Screen Display
and infrared remote control

INSTRUCTION MANUAL

WARNING

All the safety and operating instructions should be read
before the unit is operated.

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WARNING

CAUTION
RISK OF ELECTRIC SHOCK
DO NOT OPEN

WARNING
To prevent the risk of fire or shock hazard, do not expose this appliance to rain or moisture.

CAUTION

To reduce the risk of electric shock, do not remove covers. No user-serviceable parts inside. Refer servicing to qualified personnel only.

This Samsung product complies with the requirements of EEC Recommendation 87/308, as well as with other applicable European safety standards.

INSTALLING THE UNIT

Carefully remove any packaging from the unit. Place the unit on a solid base, leaving enough space around each side for proper ventilation.

The aerial should be connected to the socket at the back of the set. An inferior aerial is likely to result in a poor, perhaps

unstable picture with ghost images and lack of contrast.

Make-shift loft or set-top aerials are often inadequate.

Your dealer will know from experience the most suitable type of aerial for your locality.

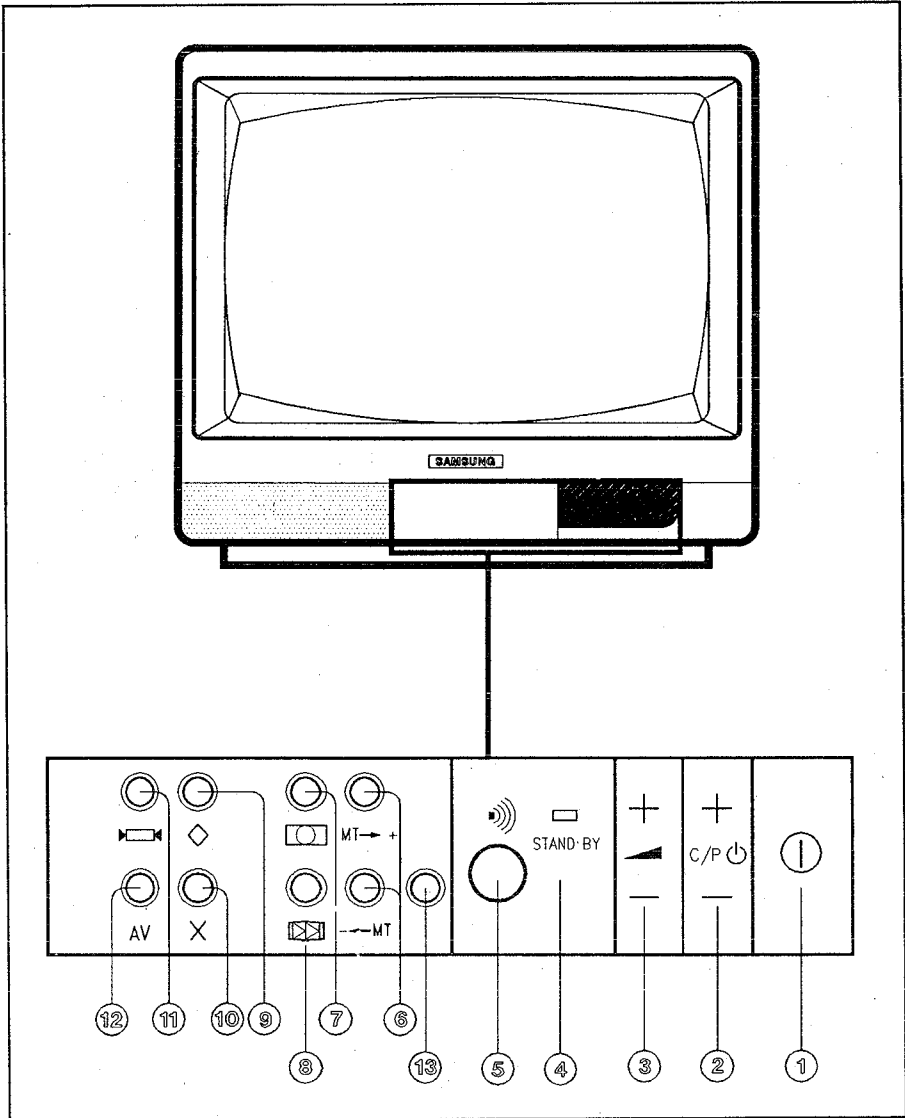
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PRECAUTIONS

- All the safety and operating instructions should be read before the unit is operated.
- The safety and operating instructions should be retained for future reference.
- The unit should not be used in extremely hot or dusty environments and near water (for example, near a bath-tub, wasbowl, kitchen sink, laundry tub, in a wet basement or near a swimming pool).
- The unit should be situated so that its location or position does not interfere with its proper ventilation. For example, should not be placed in a built-in installation, such as bookcase or cabinet that may impede the flow of air through the ventilation openings.
- The unit should be situated away from heat sources such as radiators, heat registers, stoves or other appliances which produce heat.
- The unit should be connected to a power supply only of the type described in the operating instructions, or as marked on the unit itself.
- Precautions should be taken so that the grounding or polarization means of the unit is not defeated.
- Power-supply cords should be routed so that they are not likely to be walked on or pinched by items placed upon or against them, paying particular attention to cords at plugs, convenience receptacles, and the point where they exit from the unit. Use of extension cords may be dangerous.
- Picture tube is fragile; handle the unit with care and install it only on a perfectly stable and horizontal surface.
- The power cord and the aerial cord should be unplugged from the outlets when the unit is left unused for a long period of time.
- Care should be taken so that objects do not fall and liquids are not spilled into the cabinet through the ventilation openings.
- The unit should be serviced by qualified service personnel when:
 - a) The power-supply cord or the plug has been damaged.
 - b) Objects have fallen, or liquid has been spilled into the cabinet.
 - c) Has been exposed to rain.
 - d) Does not appear to operate normally, or exhibits a marked change in performance.
 - e) Has been dropped, or the enclosure is damaged.
- Clean off dust and dirt on the surfaces with a soft, dry cloth. Never use thinner, benzene or abrasive cleaners, since these will damage the surface finish.
- Keep away the packaging plastic bags from children and pets.
- Desing and specifications are subject to change without notice.
- If the unit is used improperly, the manufacturer warranty will be invalidated.

CONTROLS AND SOCKETS

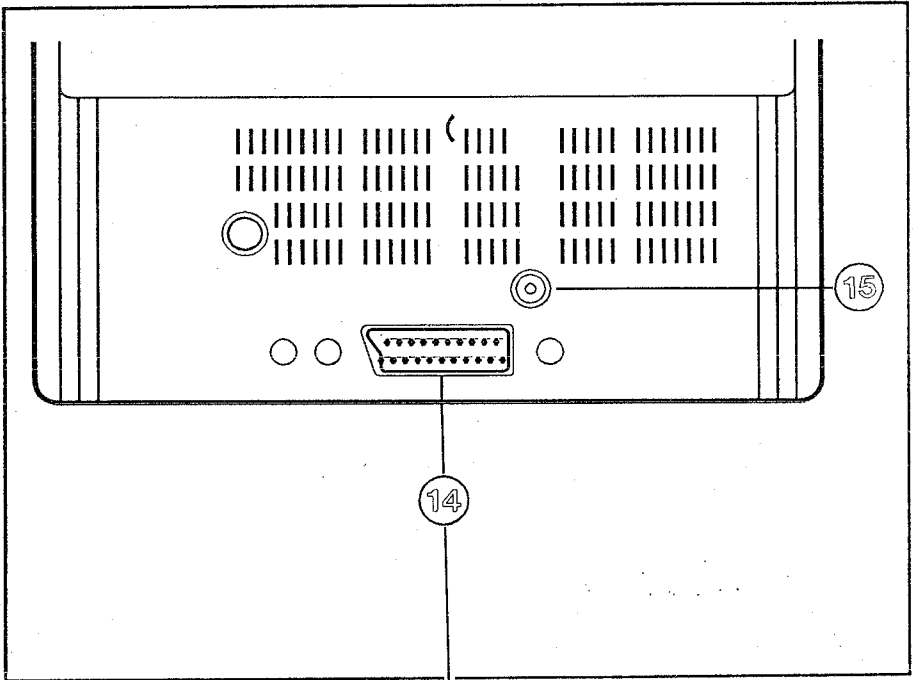
FRONT PANEL



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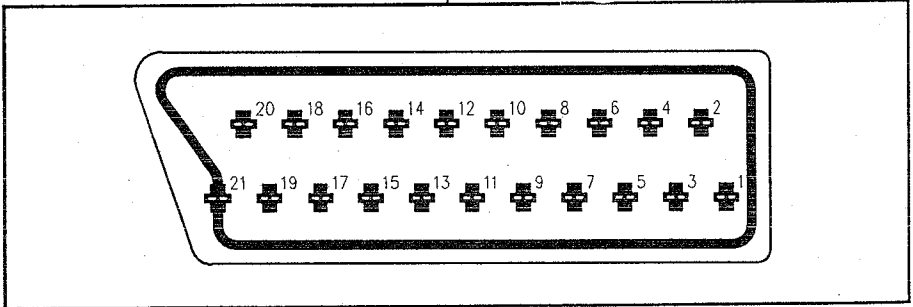
CONTROLS AND SOCKETS

REAR PANEL



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EURO - AV JACK



CONTROLS AND SOCKETS

- 1 MASTER SWITCH**

Press this switch once: the stand-by indicator will light. A further press turns the unit off.

Note: If you are leaving the house for a long period of time, turn the unit off with the MASTER switch. If you want to switch off the unit only for a short time, use the STAND-BY switch on the remote control.
- 2 PROGRAMME UP OR DOWN / SWITCH ON**

Press these buttons to increase (C/P+) or decrease (C/P-) the programme number. When the unit is in stand-by mode, pressing one of these buttons will switch it on.
- 3 VOLUME UP OR DOWN**

Press the " + " button to increase the sound level.
Press the button " - " to decrease the sound level.
- 4 STAND-BY INDICATOR**

When the master switch is in "ON" position, the stand-by indicator is lit. The stand-by indicator goes out when the master switch is in "OFF" position.
- 5 INFRARED REMOTE SENSOR**

Receives signals from the remote control.
- 6 MANUAL TUNING UP OR DOWN**

Normally the manual tuning is not needed, but it can be useful under extremely poor signal conditions, when automatic search tuning has failed. The On Screen Display will show during manual tuning.
- 7 PICTURE MODE COMMAND**

Allows adjustment of brightness, colour, contrast and volume. In sequence, the display will show the appropriate symbol in red and the level indication in green. The level setting is adjusted with the VOLUME UP and VOLUME DOWN buttons. Each press on the PICTURE MODE COMMAND button will display a different function ready for adjustment with the VOLUME UP or VOLUME DOWN buttons. The On Screen Display will disappear automatically after a short period of time, and the function of VOLUME UP or VOLUME DOWN buttons will revert to control of the volume only.
- 8 AUTOMATIC SEARCH**

Used to initiate tuning sequence. The On Screen Display will show a green tuning indication bar and the receiver will commence to search up the band and will stop when a channel of suitable strength is received. A further press will continue the search. When the tuning indicator reaches the top of one band, it will start again from the bottom of another one. If the SEARCH key is hold down for approximately three seconds, the tuning will revert to the lower end of another band.

CONTROLS AND SOCKETS

- 9 STORE**
This button can be used to store the selected colour, brightness, contrast, volume, and programme number.
- 10 CLEAR**
This button can be used to clear previous settings of colour, brightness, colour, contrast, volume and erase programme numbers.
- 11 PERSONAL PRESET**
The personal preset of colour, brightness, contrast and volume can be stored in the analogue states. The personal preset button can be pressed to memorize the analogue states.
- 12 AV MODE SELECTOR**
Whenever this button is pressed, the modes will be changed as follows: TV > VIDEO > TV, and so on.
- 13 EAR PHONE JACK (OPTION)**
- 14 EURO-AV JACK**
For connection of peripheral equipment to the unit. Please consult your dealer if any problem is experienced in this case.
- 15 AERIAL SOCKET**
For connection of an external aerial.

STORE PROCEDURE

Programme numbers storing

There are 40 programme positions available (0-39), against which channels may be stored. The programme numbers are selected with the keys numbered 0-9 on the remote control. After switch on, the unit will accept single digit keys, i.e. 0-9, and it will be necessary to press the single/dual key (- / - -) so that numbers 10-39 can be selected. The programme may be changed using the C/P + or C/P - buttons on the unit or on the remote control. Only stored programme numbers are displayed in sequential order.

Examples:

For select programme number 2, press 2 button while in the screen is showed the single line (-).

For select programme number 12, press 1 and 2 buttons while in the screen is showed the double line (- -).

For select programme number 32, press 3 and 2 buttons while in the screen is showed the double line (- -).

To store programme numbers:

1. Press SEARCH key (►►). The On Screen Display will show the tuning band, and the tuning position bar will "search" up the band. The tuning will stop at every station of sufficient signal strength. A further press on the SEARCH key will commence the channel search again.
2. When the required channel has been found, press STORE button (◆); the On Screen Display will show "STORE" indication and a reference bar.
3. Press PROGRAMME UP or PROGRAMME DOWN buttons to select the programme number against which the channel is to be stored. The

number will appear on the OSD next to "STORE" indication.

4. Presso STORE button (◆) again, and the On Screen Display will show "STORE" in green letters, indicating that the information has been stored. The On Screen Display will disappear automatically after a few seconds.
5. Follow the same steps as explained in steps 1 to 4 for storing all the other programme numbers.

Personal preset levels storing

Switching on the unit for the first time, the picture and sound settings (colour, brightness, contrast and volume) are based on factory selected standard values.

The picture and sound settings may therefore be programmed by the user, on the base of personal preferences values.

To store personal preset levels:


1. Adjust colour, brightness, contrast and volume levels using remote control or via unit PICTURE MODE COMMAND and VOLUME UP or VOLUME DOWN buttons.
2. Press STORE key (◆). The On Screen Display will show the "STORE" indication in red letters.
3. Press PERSONAL PRESET key (►◄◄). The On Screen Display will display "STORE" in red and "PP" in green letters.
4. Press again STORE key (◆). The On Screen Display will show both "STORE" and "PP" indications in green letters. The personal preset levels are now stored. The On Screen Display disappears automatically after a few seconds.

CLEAR PROCEDURE

To clear a programme number:

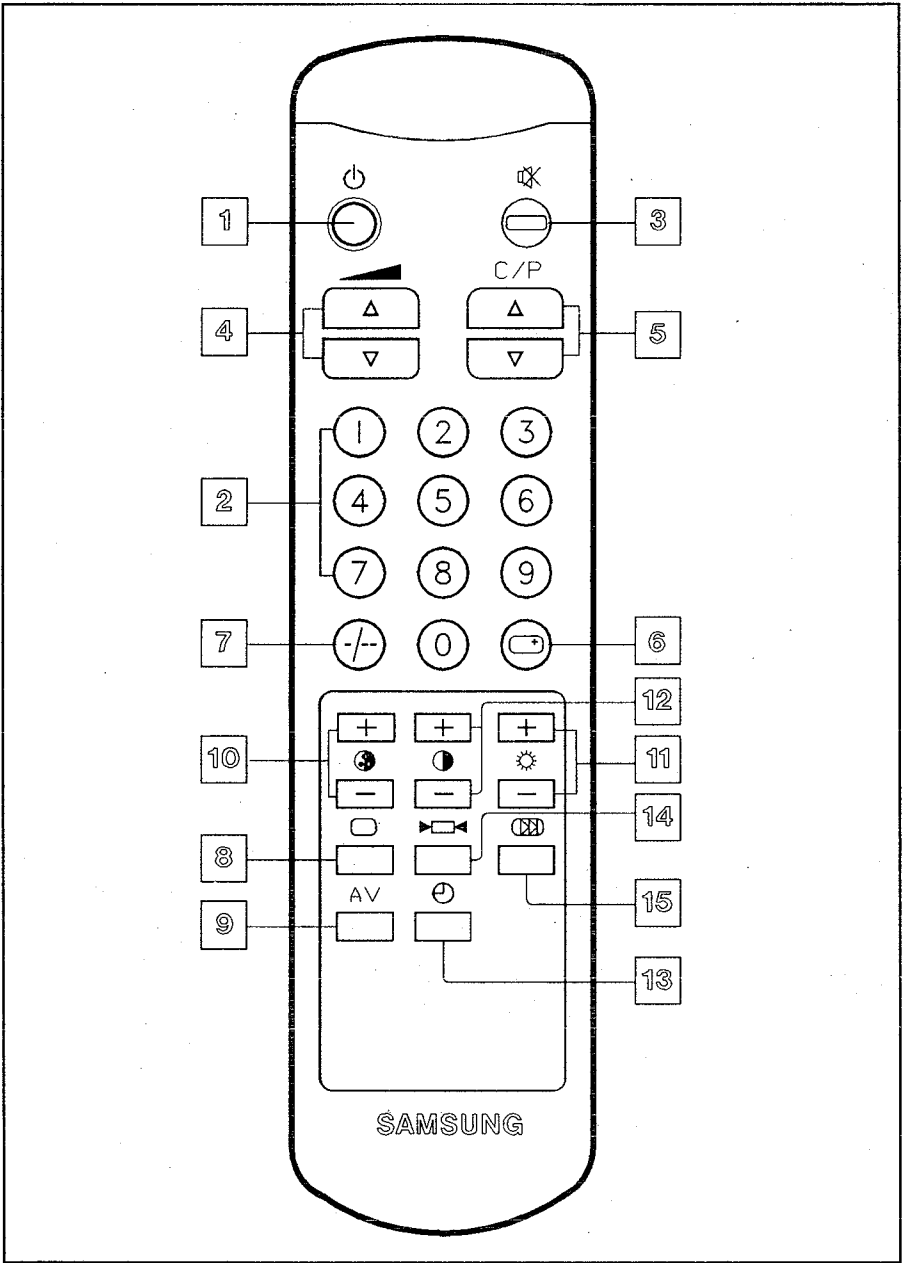
1. Press CLEAR key (X). The On Screen Display will show the "CLEAR" indication in red letters.
2. Press PROGRAMME UP or PROGRAMME DOWN buttons to select the programme number to be cleared. The number will appear on the On Screen Display next to "CLEAR" indication.
3. Press again CLEAR key (X). The On Screen Display will show the "CLEAR" indication in green letters, and will disappear automatically after a few seconds.
4. Follow the same steps as explained in steps 1 to 3 for clearing other programme numbers.

To clear personal preset levels:

1. Press CLEAR key (X). The On Screen Display will show the "CLEAR" indication in red letters.
2. Press PERSONAL PRESET key (). The On Screen Display will show "CLEAR" in red and "PP" in green letters.
3. Press again CLEAR key (X). The On Screen Display will show both "CLEAR" and "PP" indications in green letters. The personal preset levels are now returned to factory preset levels:
 - Brightness: 50%
 - Colour: 50%
 - Contrast: 100%
 - Volume: 20% (no Mute)The On Screen Display disappears automatically after a few seconds.

REMOTE CONTROL

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REMOTE CONTROL

- 1 STAND-BY**
Press this button to turn the unit off for short periods of time.
- 2 10-KEY BUTTON**
Press these buttons to select programme numbers (i.e.: Pressing 3 key, the unit automatically switch on and recalls programme number 3).
- 3 MUTE**
Press this button to mute the sound. Press it again to recall the previous volume level setting.
- 4 VOLUME UP / DOWN**
Press the “ + ” button to increase the sound level.
Press the button “ - ” to decrease the sound level.
- 5 PROGRAMME UP / DOWN**
Press the “ + ” button to increase the programme number.
Press the button “ - ” to decrease the programme number.
When the unit is in stand-by mode, pressing one of these buttons will switch it on.
- 6 RECALL**
Press this button to turn the unit on, and to recall the last programme number tuned before you turned it off. If the TV is switched on, press this button to display on the screen the programme number, the channel band and the off timer.
- 7 SINGLE/DUAL DIGIT**
Pressing this button will be alternately selected the one-digit figure or the double-digit figure.
- 8 TV SELECTION**
One depression makes the mode changes from VIDEO mode to TV mode.
- 9 AV SELECTION**
One depression makes the mode changes from TV mode to VIDEO mode.
- 10 COLOUR UP / DOWN**
Press the “ + ” button to increase the colour level.
Press the button “ - ” to decrease the colour level.
- 11 BRIGHTNESS UP / DOWN**
Press the “ + ” button to increase the brightness level.
Press the button “ - ” to decrease the brightness level.
- 12 CONTRAST UP / DOWN**
Press the “ + ” button to increase the contrast level.
Press the button “ - ” to decrease the contrast level.

REMOTE CONTROL

13 OFF TIMER PROGRAMMING

This unit may be programmed to switch into stand-by mode after a set period of time. When the SLEEP key is pressed, the On Screen Display will show "OFF" and red, and further presses will show the time settings in increments of 15 minutes, in the following order: 15 → 30 → 45 → 60 → 75 → 90 → 105 → 120, then again OFF → 15, and so on.

14 PERSONAL PRESET

Reset colour, brightness, contrast and volume levels to personal preset levels.

15 AUTOMATIC SEARCH

Used to initiate tuning sequence. The On Screen Display will show a green tuning indication bar and the receiver will commence to search up the band and will stop when a channel of suitable strength is received. A further press will continue the search. When the tuning indicator reaches the top of one band, it will start again from the bottom of another one. If the SEARCH key is hold down for approximately three seconds, the tuning will revert to the lower end of another band.



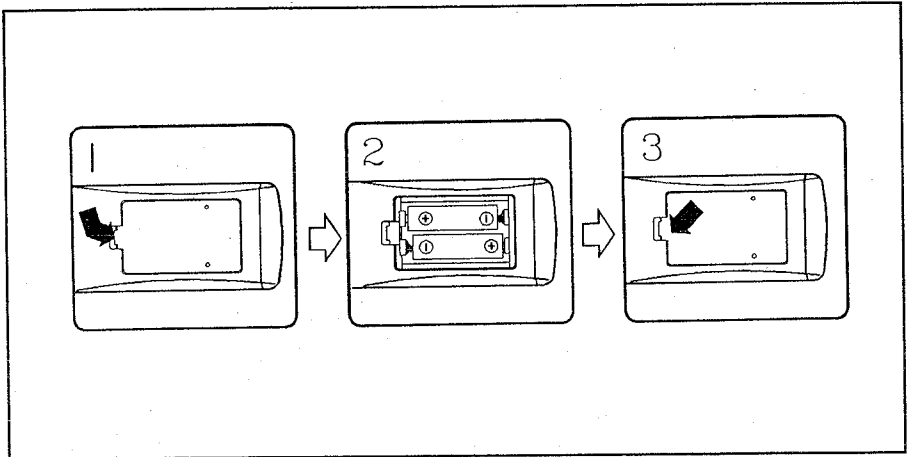
REMOTE CONTROL BATTERY

The supplied wireless remote control unit permits operation of all main operative functions from a convenient location only if the batteries are conveniently charge. When the batteries are nearing exhaustion, the effective range of the remote control decreases, or the remote control may fail to operate. In this case, replace the batteries with fresh ones. Remove the cover of the battery compartment as shown in the illustration, and insert two new "AA" (1,5V each) batteries into the compartment, taking care to observe correct polarity.

Note:

- Point the infrared transmitter window of the remote control toward the sensor on the front panel of the unit.

- Check that no objects obstructs the infrared signal transmission between the remote control and the unit.
- The operating life of the batteries is about one year, although it depends on the number of times the remote control is used. Replace the batteries when operation is not possible or when the transmission range becomes too short.
- To prevent damage caused by possible batteries leakage, remove the batteries from the remote control if it is not to be used for an extended period of time.
- Never heat or dismantle batteries or dispose of them in fire, as they may explode. Dispose of exhausted batteries only in the appropriate way as indicated by your community.



BEFORE YOU CALL FOR SERVICE

Sometimes problem can be solved easily by checking a few basic points. Check below before you call for help or take your unit to the dealer or to a Service Center.

If the problem is not solved, consult the qualified personnel of a Service Center, and not try to attempt any service by yourself.

FAULT	POSSIBLE SOLUTION
No picture, no sound	<ul style="list-style-type: none">• Check the power supply line• Check brightness and volume levels
Snow on screen, noisy sound	<ul style="list-style-type: none">• Adjust the tuning• Check aerial connection
No colour, normal or weak sound	<ul style="list-style-type: none">• Check colour level• Check aerial connection
Multiple image, normal sound	<ul style="list-style-type: none">• Check aerial orientation and location
Interferences on screen, distorted or noisy sound	<ul style="list-style-type: none">• Increase distance between unit and appliances, fluorescent lights, transformers or other electrical equipment
Remote control does not operate properly	<ul style="list-style-type: none">• Replace batteries• Check batteries terminals



EURO - AV JACK

The main advantage of this kind of connection between this unit and an external peripheral equipment (for example: videorecorder, videoplayer, camcorder, personal computer, satellite tuner, and so on) is a better quality of

reproduced picture and sound. If your videorecorder is not provided with EURO - AV jack, you can use optional adaptor. Your dealer will indicate you the right solution to any connection problem.

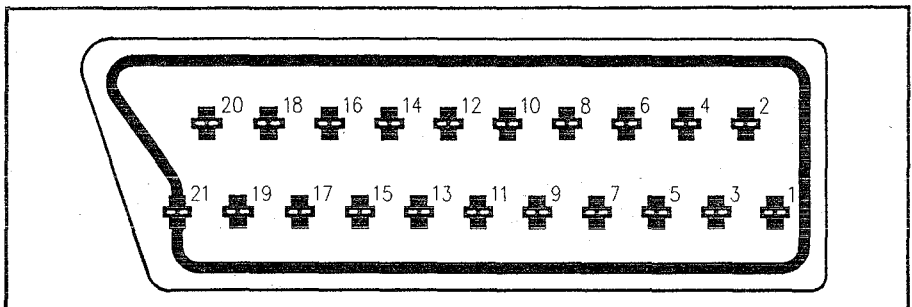
Pin layout

The pin layout of the EURO - AV socket is as follows:

Pin	Signal
1	Audio output B
2	Audio input B
3	Audio output A
4	Audio chassis return
5	Video chassis return (blue)
6	Audio input A
7	RGB blue input
8	Switching pin
9	Video chassis return (green)
10	-

11	RGB green input
12	-
13	Video chassis return (red)
14	-
15	RGB red input
16	Blanking signal
17	Video chassis return
18	Blanking signal ground
19	Video output
20	Video input
21	Screening chassis return

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SPECIFICATIONS

Screen	14"
System	PAL B/G
Channels	VHF A-H2 (C channel included) - UHF 21-69
Aerial	75 ohm
Input	EURO-AV jack - Aerial socket
Power supply	220V - 50 Hz
Consumption	45Wh
Dimensions (W x H x D)	425 x 464 x 456 mm
Weight	12.5 Kg
Provided accessories	Infrared remote control

BAND	CHANNEL	CHANNEL NUMBER	FREQUENCY
I	A-B-C	13-14-15	52,5-88 MHz
III	D-E-F-G-H1-H2	16-17-18-19-20-11-12	174-230 MHz
UHF	21-69	21-69	470-861 MHz