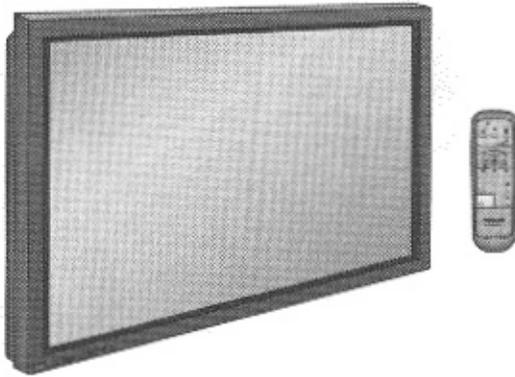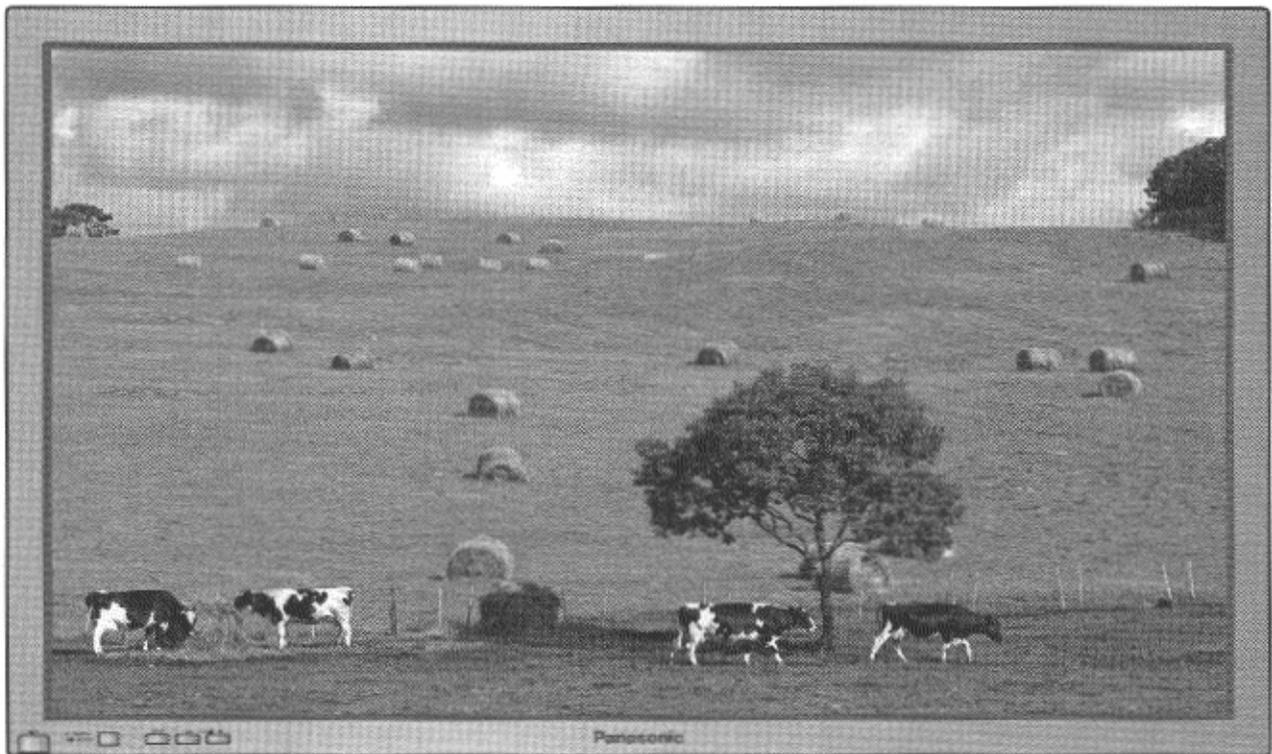# Panasonic®

Wide Plasma Display
Operating Instructions

Model No. **TH-42PW3**

For assistance, please call : 1-888-VIEW-PTV(843-9788) or send e-mail to : consumerproducts@panasonic.com or visit us at www.panasonic.co.jp/global/	(U.S.A)
For assistance, please call : 787-750-4300	(Puerto Rico)
For assistance, please call : 1-800-561-5505 or visit us at www.panasonic.co.jp/global/	(Canada)

Before connecting, operating or adjusting this product, please read these instructions completely. Please keep this manual for future reference.

English

Important Safety Instructions

Read Instructions
All the safety and operating instructions shall be read before the appliance is operated.

Retain Instructions
The safety and operating instructions shall be retained for future reference.

Heed Warnings
All warnings on the appliance and in the operating instructions shall be adhered to.

Follow Instructions
All operating and use instructions shall be followed.

Attachments
Do not use attachments/accessories not recommended by the product manufacturer as they may cause hazards.

Grounding or Polarization
This product may be equipped with either a polarized 2-wire AC line plug (a plug having one blade wider than the other) or a 3-wire grounding-type plug, a plug having a third (grounding) pin.
The 2-wire polarized plug will fit into the power outlet only one way. This is a safety feature. If you are unable to insert the plug fully into the outlet, try reversing the plug. If the plug shall still fail to fit, contact your electrician to replace your obsolete outlet. Do not defeat the safety purpose of the polarized plug. The 3-wire grounding-type plug will fit into a grounding type power outlet.
This is a safety feature. If you are unable to insert the plug into the outlet, contact your electrician to replace your obsolete outlet. Do not defeat the safety purpose of the grounding type plug.

Accessories
Do not place this product on an unstable cart, stand, pedestal, bracket, or table. The product may fall, causing serious injury to a child or adult, and serious damage to the appliance. Use only with a cart, stand, pedestal, bracket, or table recommended by the manufacturer, or sold with the product.

An appliance and cart combination shall be moved with care. Quick stops, excessive force, and uneven surfaces may cause the appliance and cart combination to overturn.

Power Sources
This product shall be operated only from the type of power source indicated on the marking label. If you are not sure of the type of power supply to your home, consult your appliance dealer or local power company.
Unplug this apparatus during lightning storms or when unused for a long period of time.

Power-Cord Protection
Power-supply cords shall 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 appliance.

Overloading
Do not overload wall outlets and extension cords as this can result in a risk of fire or electric shock.

Object and Liquid Entry
Never push objects of any kind into this product through openings as they may touch dangerous voltage points or short-out parts that could result in a fire or electric shock. Never spill liquid of any kind on the product.

Servicing
Do not attempt to service this product yourself as opening or removing covers may expose you to dangerous voltage or other hazards. Refer all servicing to qualified service personnel.

Replacement Parts
When replacement parts are required, be sure the service technician has used replacement parts specified by the manufacturer or have the same characteristics as the original part. Unauthorized substitutions may result in fire, electric shock or other hazards.

Safety Check
Upon completion of any service or repairs to this product, ask the service technician to perform safety checks to determine that the product is in proper operating condition.

Damage Requiring Service
Unplug this product from the wall outlet and refer servicing to qualified service personnel under the following conditions:
a. When the power-supply cord or plug is damaged.
b. If liquid has been spilled, or objects have fallen into the product.
c. If the product does not operate normally by following the operating instructions. Adjust only those controls that are covered by the operating instructions as an improper adjustment of other controls may result in damage and will often require extensive work by a qualified technician to restore the product to its normal operation.
d. If the product has been dropped or the cabinet has been damaged.
e. When the product exhibits a distinct change in performance - this indicates a need for service.
f. If the product has been exposed to rain or water.

Cleaning
Unplug this product from the wall outlet before cleaning. Do not use liquid cleaners or aerosol cleaners. Use a damp cloth for cleaning.

Water and Moisture
Do not use this product near water - for example, near a bath tub, wash bowl, kitchen sink, or laundry tub, in a wet basement, or near a swimming pool, and the like.

Ventilation
Slots and openings in the cabinet are provided for ventilation and to ensure reliable operation of the product and to protect it from overheating, and these openings must not be blocked or covered. The openings shall never be blocked by placing the product on a bed, sofa, rug, or other similar surface. This product shall never be placed near or over a radiator or heat register. This product shall not be placed in a built-in installation such as a rack unless proper ventilation is provided or the manufacturer's instructions have been adhered to.

Dear Panasonic Customer

Welcome to the Panasonic family of customers. We hope that you will have many years of enjoyment from your new Wide Plasma Display.

To obtain maximum benefit from your set, please read these Instructions before making any adjustments, and retain them for future reference.

Retain your purchase receipt also, and note down the model number and serial number of your set in the space provided on the rear cover of these instructions.

For assistance, please call : 1-888-VIEW-PTV(843-9788) or send e-mail to : consumerproducts@panasonic.com or visit us at www.panasonic.co.jp/global/	(U.S.A)
For assistance, please call : 787-750-4300	(Puerto Rico)
For assistance, please call : 1-800-561-5505 or visit us at www.panasonic.co.jp/global/	(Canada)

Trademark Credits
- VGA is a trademark of International Business Machines Corporation.
- Macintosh is a registered trademark of Apple Computer, USA.
- S-VGA is a registered trademark of the Video Electronics Standard Association.
  Even if no special notation has been made of company or product trademarks, these trademarks have been fully respected.

Table of Contents

FCC STATEMENT

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generated, uses, and can radiate radio frequency energy and, if not installed an used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:
* Reorient or relocate the receiving antenna.
* Increase the separation between the equipment and receiver.
* Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
* Consult the dealer or an experienced radio/TV technician for help.

FCC CAUTION:
Pursuant to 47CFR, Part 15.21 of the FCC rules, any changes or modifications to this monitor not expressly approved by Matsushita Electric Corporation of America could cause harmful interference and would void the user's authority to operate this device.

FCC Declaration of Conformity

Responsible Party:
Matsushita Electric Corporation of America
One Panasonic Way Secaucus. NJ 07094
1-800-528-8601

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

CANADIAN NOTICE:
This Class B digital apparatus complies with Canadian ICES-003.

Attach the ferrite core:
The ferrite cores provided as a supplied accessory must be used when connecting this Wide Plasma Display to video equipment. (see page 13 and 16)

Safety Precautions

WARNING

Set up

Do not place the Wide Plasma Display on sloped or unstable surfaces.
- The Wide Plasma Display may fall off or tip over.

Do not place any objects on top of the Wide Plasma Display.
- If water spills onto the Wide Plasma Display or foreign objects get inside it, a short-circuit may occur which could result in fire or electric shock. If any foreign objects get inside the Wide Plasma Display, please consult an Authorized Service Center.

Do not cover the ventilation holes.
- Doing so may cause the Wide Plasma Display to overheat, which can cause fire or damage to the Wide Plasma Display.

If using the pedestal (optional accessory), leave a space of 3 15/16" (10 cm) or more at the top, left and right, 2 3/8" (6 cm) or more at the bottom, and 2 3/4" (7 cm) or more at the rear. If using some other setting-up method, leave a space of 3 15/16" (10 cm) or more at the top, bottom, left and right, and 3/4" (1.9 cm) or more at the rear.

AC Power Supply Cord

The Wide Plasma Display is designed to operate on 120 V AC, 50/60 Hz.

Securely insert the power cord plug as far as it will go.
- If the plug is not fully inserted, heat may be generated which could cause fire. If the plug is damaged or the wall socket plate is loose, they should not be used.

Do not handle the power cord plug with wet hands.
- Doing so may cause electric shocks.

Do not do anything that might damage the power cable. When disconnecting the power cable, hold the plug, not the cable.
- Do not make any modifications, place heavy objects on, place near hot objects, heat, bend, twist or forcefully pull the power cable. Doing so may cause damages to the power cable which can cause fire or electric shock. If damage to the cable is suspected, have it repaired at an Authorized Service Center.

If the Wide Plasma Display is not in use for a long period of time, unplug the power cord from the wall outlet.

If problems occur during use

If a problem occurs (such as no picture or no sound), or if smoke or an abnormal odor is detected from the Wide Plasma Display, unplug the power cord immediately.
- Continuous use of the Display under these conditions might cause fire or permanent damage to the unit. Have the Display evaluated at an Authorized Service Center. Services to the Display by any unauthorized personnel are strongly discouraged due to its high voltage dangerous nature.

If water or foreign objects get inside the Wide Plasma Display, if the Wide Plasma Display is dropped, or if the cabinet becomes damaged, disconnect the power cord plug immediately.
- A short may occur, which could cause fire. Contact an Authorized Service Center for any repairs that need to be made.

⚠ CAUTION

This Wide Plasma Display is for use only with the following optional accessories. Use with any other type of optional accessories may cause instability which could result in the possibility of injury.

(All of the following accessories are manufactured by Matsushita Electric Industrial Co., Ltd.)

- Speakers ·· TY-SP42PWD3W
- Pedestal ·· TY-ST42PT3-K
- Wall stand ·· TY-ST42PW1
- Wall-hanging bracket (angled) ················· TY-WK42PR1

Always be sure to ask a qualified technician to carry out set-up.

When using the Wide Plasma Display

Do not bring your hands, face or objects close to the ventilation holes of the Wide Plasma Display.
- Top of Wide Plasma Display is usually very hot due to the high temperature of exhaust air being released through the ventilation holes. Burns or personal injuries can happen if any body parts are brought too close. Placing any object near the top of the display could also result in heat damages to the object as well as to the Display if its ventilation holes are blocked.

Be sure to disconnect all cables before moving the Wide Plasma Display.
- Moving the Display with its cables attached might damage the cables which, in turn, can cause fire or electric shock.

Disconnect the power plug from the wall outlet as a safety precaution before carrying out any cleaning.
- Electric shocks can result if this is not done.

Clean the power cable regularly to prevent it from becoming dusty.
- Built-up dust on the power cord plug can increase humidity which might damage the insulation and cause fire. Unplug the cord from the wall outlet and clean it with a dry cloth.

Cleaning and maintenance

The front of the display panel has been specially treated. Wipe the panel surface gently using only a cleaning cloth or a soft, lint-free cloth.
- If the surface is particularly dirty, soak a soft, lint-free cloth in a weak detergent solution and then wring the cloth to remove excess liquid. Use this cloth to wipe the surface of the display panel, then wipe it evenly with a dry cloth, of the same type, until the surface is dry.
- Do not scratch or hit the surface of the panel with fingernails or other hard objects. Furthermore, avoid contact with volatile substances such as insect sprays, solvents and thinner, otherwise the quality of the surface may be adversely affected.

If the cabinet becomes dirty, wipe it with a soft, dry cloth.
- If the cabinet is particularly dirty, soak the cloth in a weak detergent solution and then wring the cloth dry. Use this cloth to wipe the cabinet, and then wipe it dry with a dry cloth.
- Do not allow any detergent to come into direct contact with the surface of the Wide Plasma Display. If water droplets get inside the unit, operating problems may result.
- Avoid contact with volatile substances such as insect sprays, solvents and thinner, otherwise the quality of the cabinet surface may be adversely affected or the coating may peel off. Furthermore, do not leave it for long periods in contact with articles made from rubber or PVC.

Note:
Do not allow a still picture to be displayed for an extended period, as this can cause a permanent after-image to remain on the Wide Plasma Display.
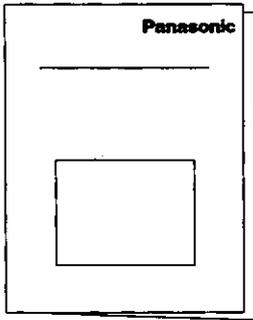Examples of still pictures include logos, video games, computer images, teletext and images displayed in 4:3 mode.
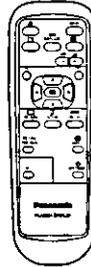
Accessories

Accessories Supplied
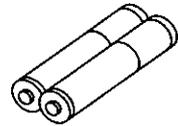
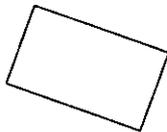**Check that you have the Accessories and items shown** ☑

- [ ] Operating Instruction book

  Panasonic

- [ ] Remote Control Transmitter
  EUR646525

- [ ] Batteries for the Remote
  Control Transmitter
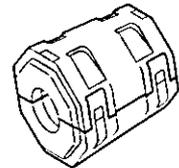 (AA(R6) Battery × 2)

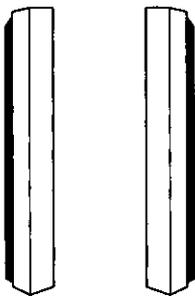- [ ] Warranty

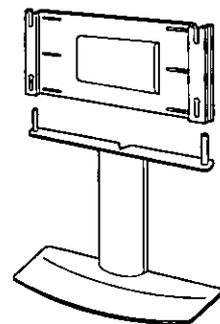- [ ] RCA/BNC Adapter Plug

- [ ] Ferrite core × 2
  KRCBC160928B

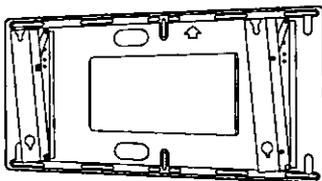## Optional Accessories

- Speakers
  TY-SP42PWD3W

- Pedestal
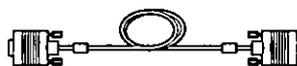 TY-ST42PT3-K

- Wall stand
  TY-ST42PW1

- Wall-hanging bracket
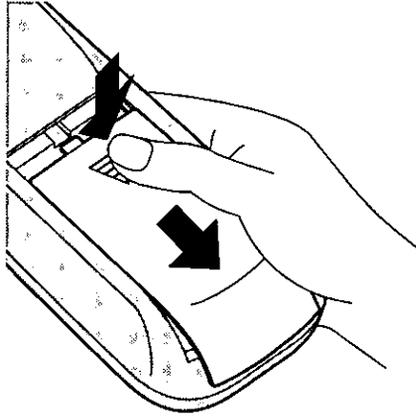 (angled)
  TY-WK42PR1

- Connecting Cable
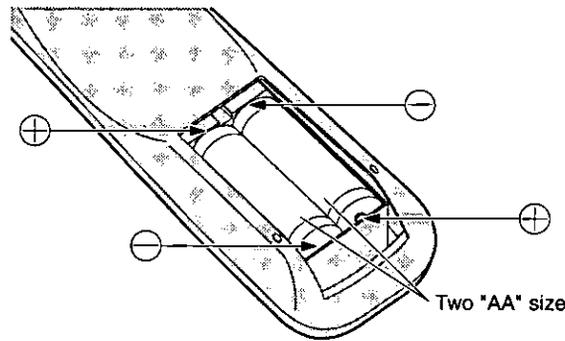 TY-SCP15C03
  49.2 ft (15 m)

Remote Control Batteries
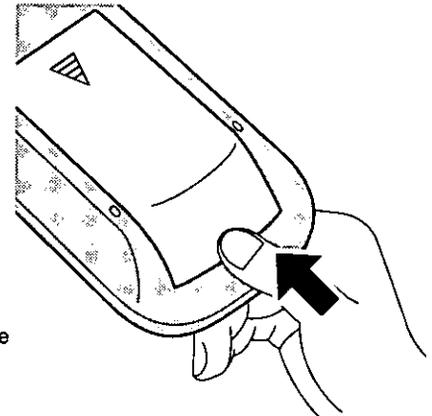
Requires two AA batteries.

1. Turn the transmitter face down. Press and slide off the battery cover.

2. Install the batteries as shown in the battery compartment. (Polarity + or – must match the markings in the compartment).

3. Replace the cove and slide in reverse until the lock snaps.

Two "AA" size

| Helpful Hint: |
| --- |
| For frequent remote control users, replace old batteries with Alkaline batteries for longer life. |

⚠ Precaution on battery use

Incorrect installation can cause battery leakage and corrosion that will damage the remote control transmitter.
Observe the following precautions:
1. Batteries should always be replaced as a pair. Always use new batteries when replacing the old set.
2. Do not combine a used battery with a new one.
3. Do not mix battery types (example: "Zinc Carbon" with "Alkaline").
4. Do not attempt to charge, short-circuit, disassemble, heat or burn used batteries.
5. Battery replacement is necessary when the remote control acts sporadically or stops operating the Plasma Display.

Basic Controls
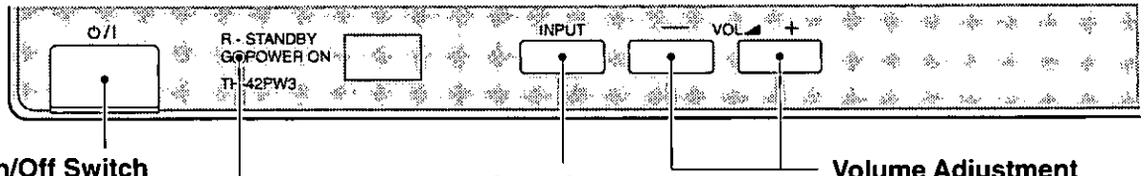
Main Power On/Off Switch

Power Indicator

The Power Indicator will light.
- Power-OFF .... Indicator not illuminated (The unit will still consume some power as long as the power cord is still inserted into the wall outlet.)
- Stand-by ⏻ .... Red
- Power-ON ..... Green

**Input button
(VIDEO (S-VIDEO)/COMPONENT,
RGB/PC Mode Selection)**
Push the "INPUT" button to select
VIDEO(S-VIDEO)/COMPONENT or
RGB/PC input signal modes sequentially.

Volume Adjustment
Push the Volume Up "+" or
Down "−" button to
increase or decrease the
sound volume level.

Stand-by (ON/OFF) button
The Wide Plasma Display must first be plugged into
the wall outlet and turn on at the power switch (see
page 18).
Push this button to turn the Wide Plasma Display ON,
from STANDBY mode. Push it again to turn the Wide
Plasma Display OFF to STANDBY mode.

Status button
Push the "Status" button to display
the current system status.
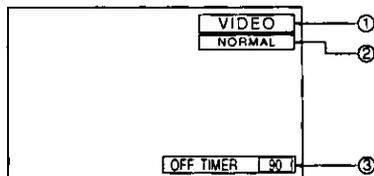
① VIDEO(S-VIDEO)/COMPONENT,
RGB/PC mode
② Aspect mode (see page 22)
③ Off timer
The off timer indicator is displayed
only when the off timer has been set.

N button
(see page 25, 26, 28, 29)

PICTURE button
(see page 28)

PICTURE POS./SIZE button
(see page 24)

PC button
Push the "PC" mode selection
button to select the PC mode.
This button is used to switch
directly to PC mode.

SURROUND button
(see page 27)

**Input button
(VIDEO(S-VIDEO)/COMPONENT,
RGB/PC Mode Selection)**
Press to select VIDEO(S-VIDEO)/
COMPONENT or RGB/PC input signal
modes sequentially. (see page 19)

Sound mute On/Off (see page 26)

Volume Adjustment
Press the Volume Up "+" or Down
"−" button to increase or decrease
the sound volume level.

R button (see page 21, 24, 26, 30)

ACTION button
Press to make selections

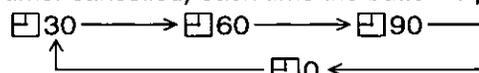**POSITION buttons**

SET UP button (see page 30)

SOUND button (see page 26)

ASPECT button
Press to adjust the aspect.
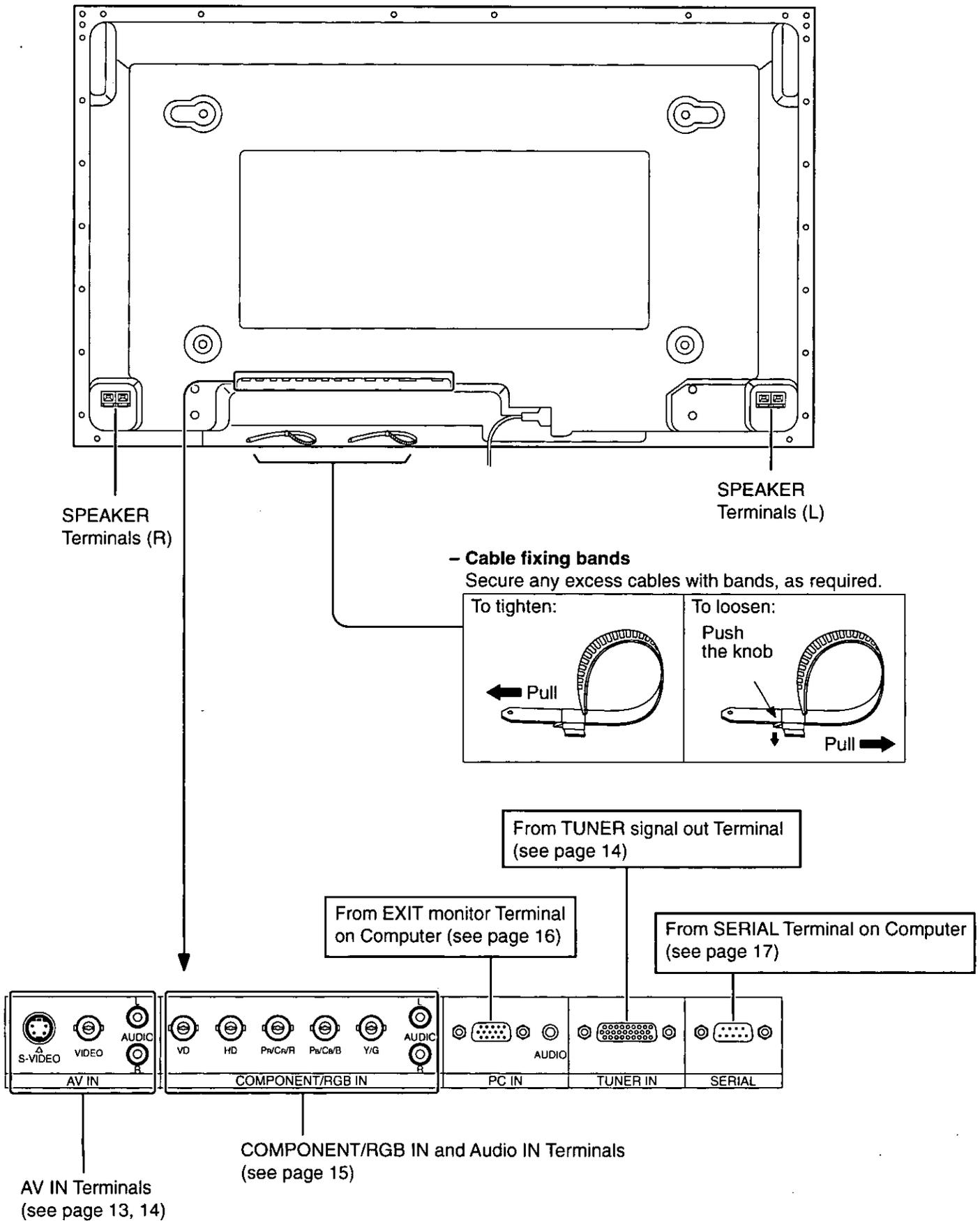(see page 22)

OFF TIMER button
The Wide Plasma Display may be preset to switch to stand-by after a fixed period.
The setting changes to 30 minutes, 60 minutes, 90 minutes and 0 minutes (off
timer cancelled) each time the button is pressed.

⊞30 ⟶ ⊞60 ⟶ ⊞90
⊞0

When three minutes remain, "Off timer 3" will flash.
The off timer is cancelled if a power interruption occurs.

Connections

SPEAKER
Terminals (R)

SPEAKER
Terminals (L)

– Cable fixing bands
Secure any excess cables with bands, as required.

To tighten:	To loosen:
← Pull	Push the knob
	Pull →

From TUNER signal out Terminal
(see page 14)

From EXIT monitor Terminal
on Computer (see page 16)

From SERIAL Terminal on Computer
(see page 17)

S-VIDEO   VIDEO   AUDIO
AV IN

VD   HD   PR/CR/R   PB/CB/B   Y/G   AUDIO
COMPONENT/RGB IN

AUDIO
PC IN

TUNER IN

SERIAL

COMPONENT/RGB IN and Audio IN Terminals
(see page 15)

AV IN Terminals
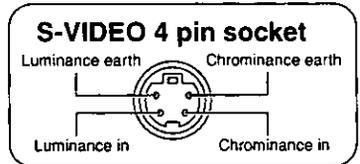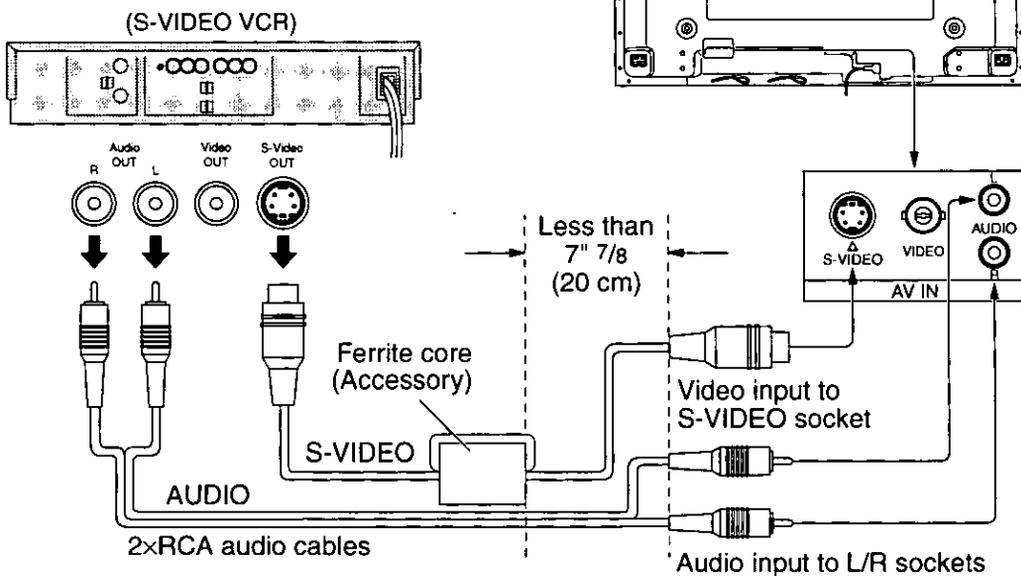(see page 13, 14)

How to connect the speakers

When connecting the speakers, be sure to use only the optional accessory speakers.
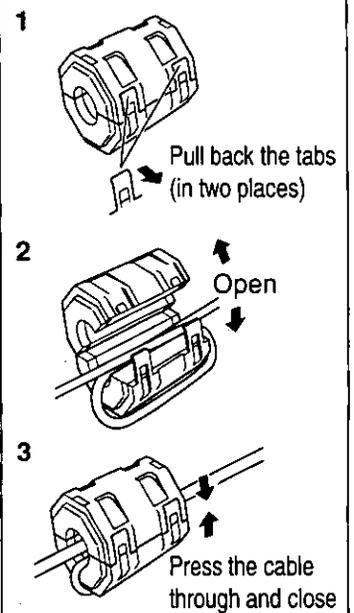Refer to the speaker's Installation Manual for details on speaker installation.

Speakers (Optional accessories)
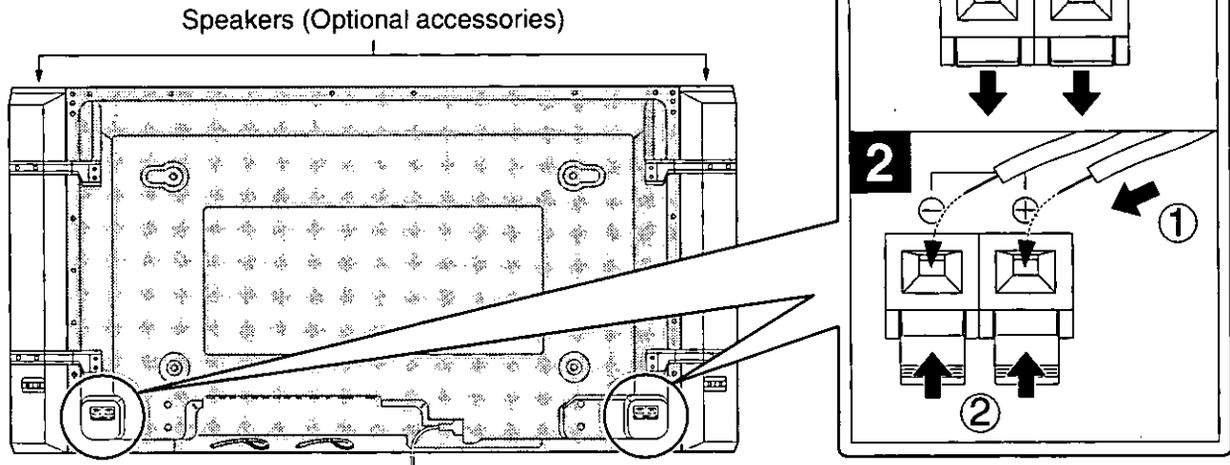
How to connect the AV Input Terminals

Connect the signal source equipment (see pages 14 to 17).

(Example) When connecting an S-VIDEO VCR

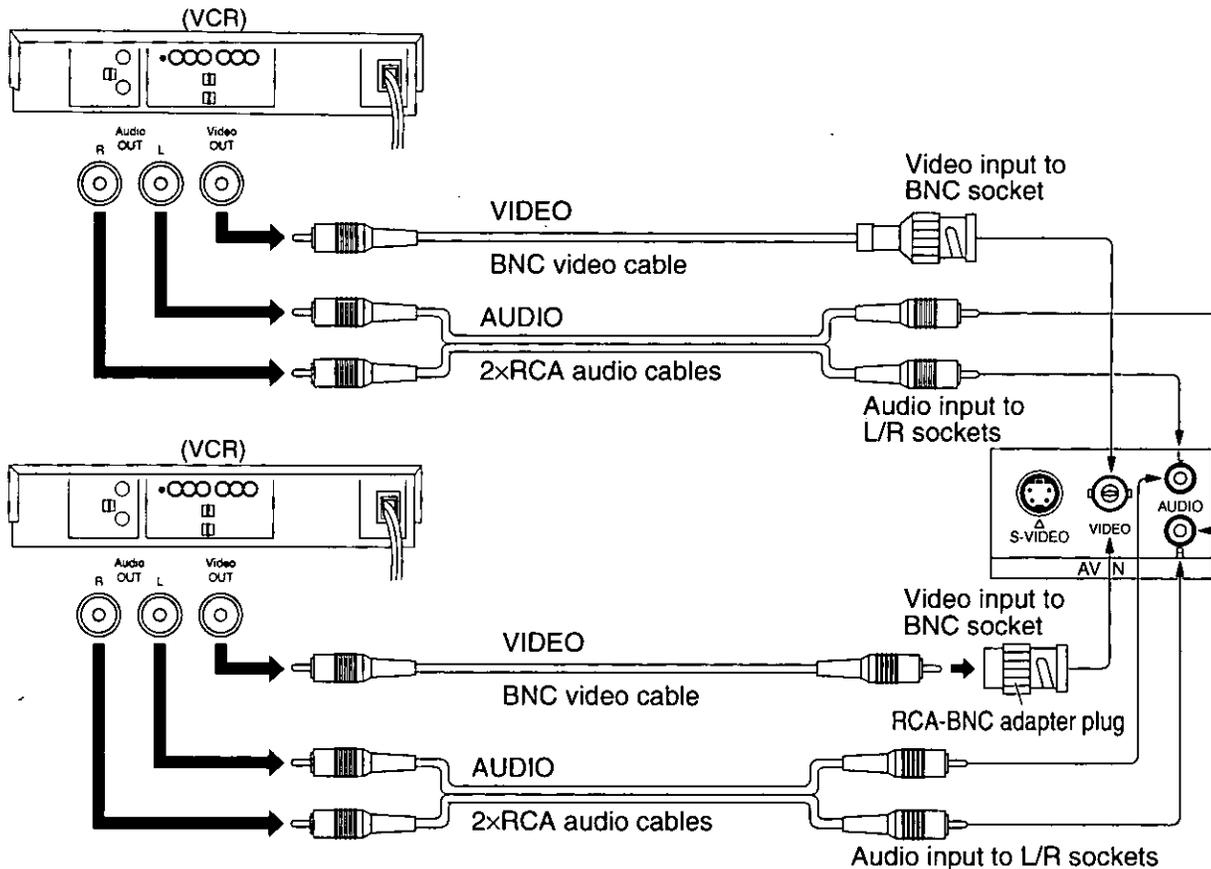**S-VIDEO 4 pin socket**

Luminance earth   Chrominance earth

Luminance in   Chrominance in

(S-VIDEO VCR)

Audio
OUT
R   L

Video
OUT

S-Video
OUT

Less than
7" 7/8
(20 cm)

Ferrite core
(Accessory)

S-VIDEO

AUDIO

2×RCA audio cables

Video input to
S-VIDEO socket

Audio input to L/R sockets

S-VIDEO   VIDEO   AUDIO

AV IN

Installing the ferrite core

1

Pull back the tabs
(in two places)

2

Open

3

Press the cable
through and close

How to connect the AV Input Terminals

VIDEO signal connection

(VCR)

Audio OUT R L   Video OUT

VIDEO
BNC video cable

Video input to
BNC socket

AUDIO
2×RCA audio cables

Audio input to
L/R sockets

(VCR)

Audio OUT R L   Video OUT

S-VIDEO   VIDEO   AUDIO
AV IN

VIDEO
BNC video cable

Video input to
BNC socket

RCA-BNC adapter plug

AUDIO
2×RCA audio cables

Audio input to L/R sockets

How to connect the CONTROLLER TUNER Input Terminals

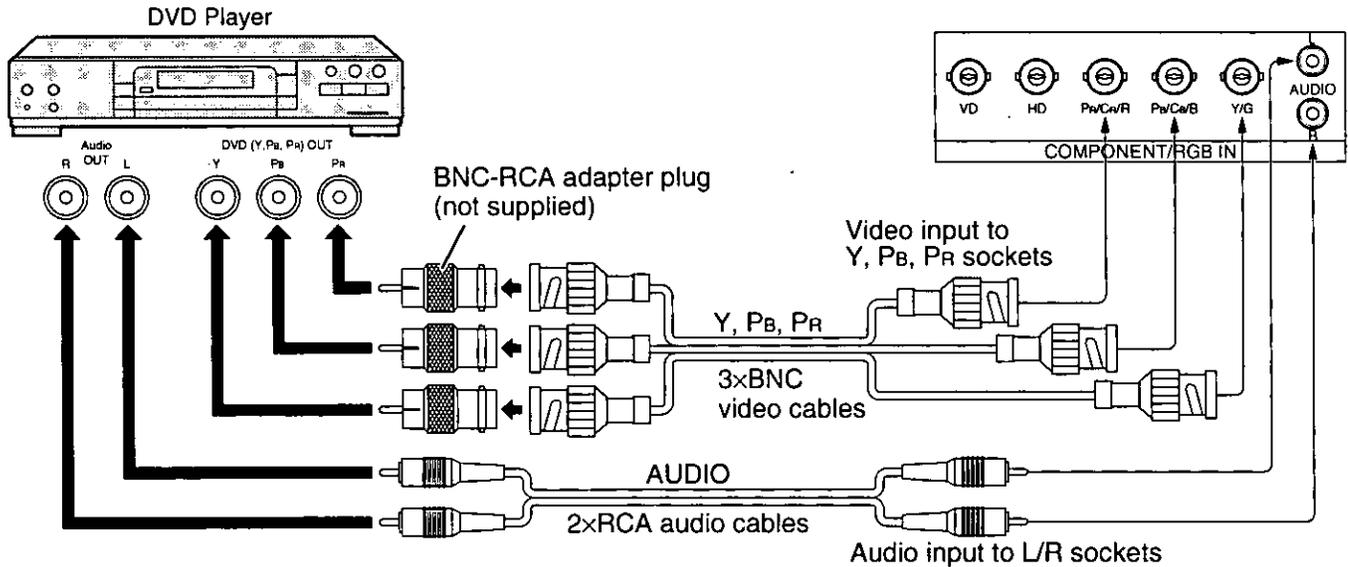The CONTROLLER TUNER input terminal is reserved for use with future external compatible components.

CONTROLLER/TUNER
(Model No. TU-PTA500U)

AUDIO   PC IN   AUDIO   TUNER IN

K1HA26FA0001
(Tuner accessories)
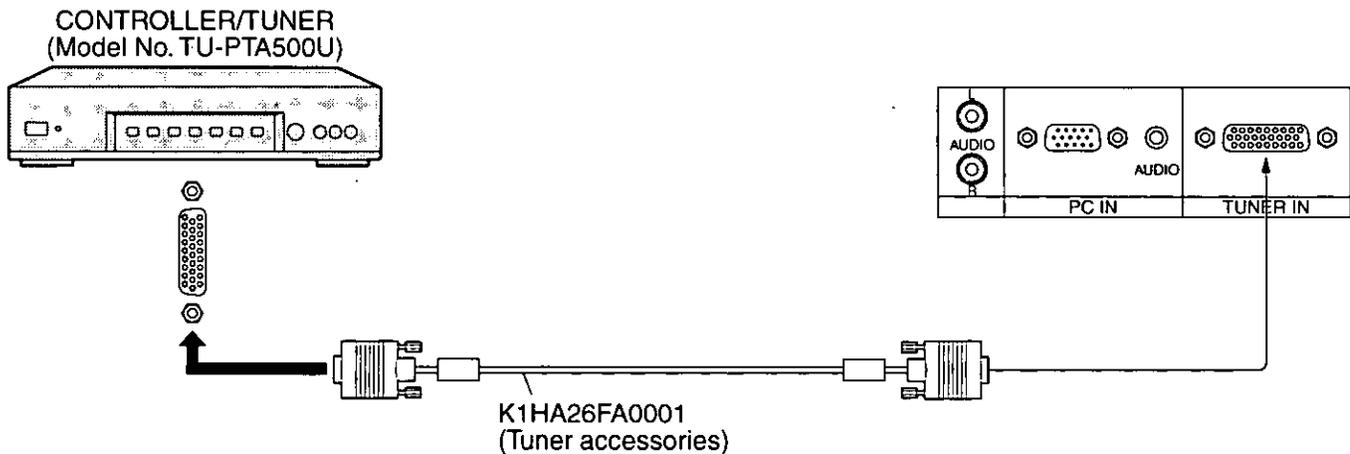
Notes:

(1) Additional equipment and cables shown are not supplied with this set.
(2) When connecting video cables, priority is given to the S-VIDEO cable when the S-VIDEO input terminal and the video input terminal are connected at the same time.
(3) Install the CONTROLLER/TUNER at least 5.7 inch (40 cm) away from the Wide Plasma Display to avoid interference.
(4) Be sure the power to the Wide Plasma Display and CONTROLLER/TUNER is OFF before connecting cables.

How to connect the COMPONENT/RGB Input Terminals

Component signals (Y, PB, PR) connection

DVD Player

BNC-RCA adapter plug
(not supplied)

Video input to
Y, PB, PR sockets

Y, PB, PR

3×BNC
video cables
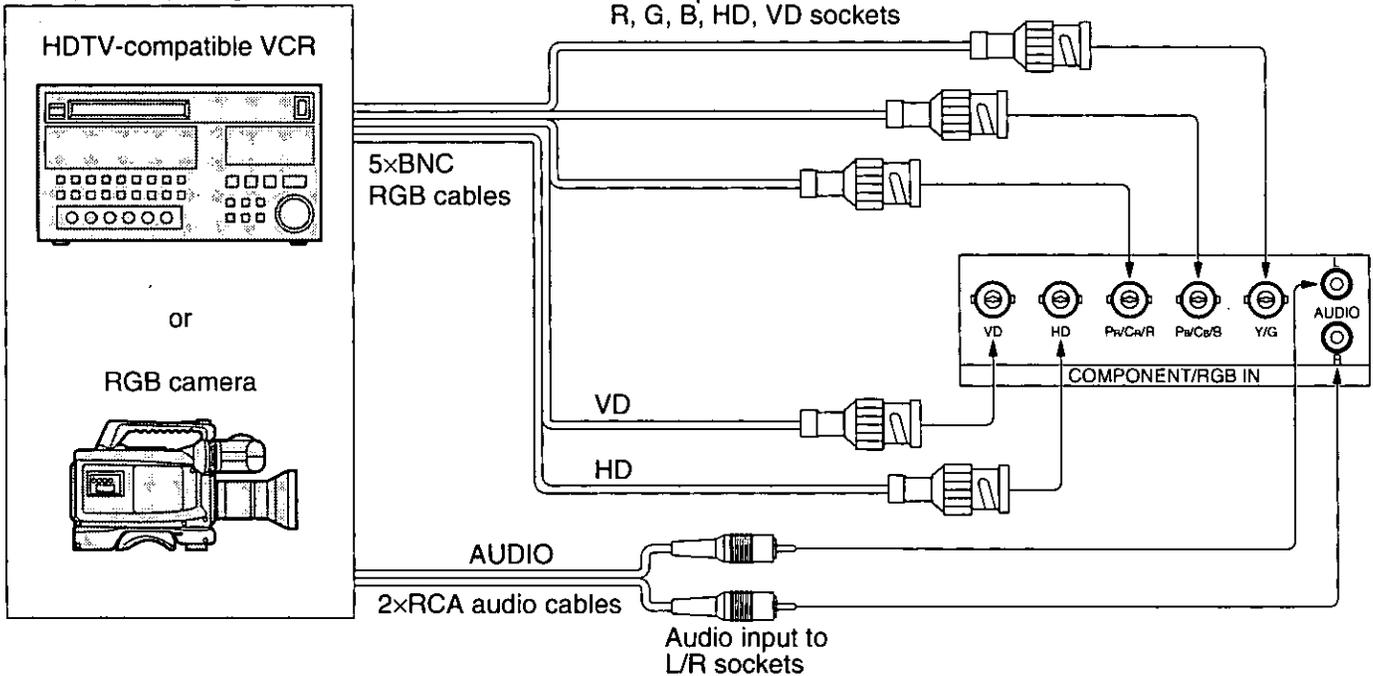
AUDIO

2×RCA audio cables

Audio input to L/R sockets

Notes:
(1) Change the "COMPONENT/RGB-IN" setting in the "SET UP" menu to "Y/PB/PR". (see page 30, 32)
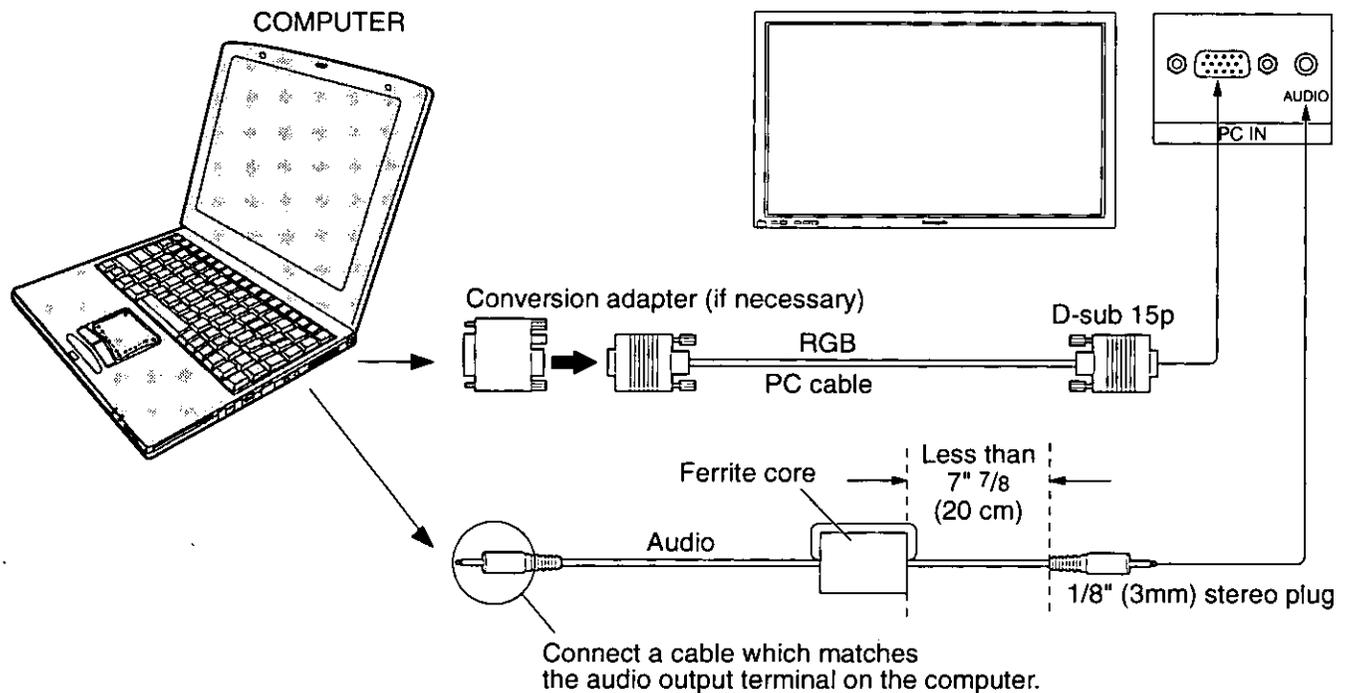(2) Additional equipment and cables shown are not supplied with this set.

RGB signal (R, G, B, HD, VD) connection

Example of input signal source

HDTV-compatible VCR

or

RGB camera

RGB input to
R, G, B, HD, VD sockets

5×BNC
RGB cables

VD

HD

AUDIO

2×RCA audio cables

Audio input to
L/R sockets

Notes:
(1) Change the "COMPONENT/RGB-IN" setting in the "SET UP" menu to "RGB". (see page 30, 32)
(2) Additional equipment and cables shown are not supplied with this set.

How to connect the PC Input Terminals

COMPUTER

Conversion adapter (if necessary)

D-sub 15p

RGB

PC cable

Ferrite core → Less than 7" 7/8 (20 cm)

Audio

1/8" (3mm) stereo plug

Connect a cable which matches
the audio output terminal on the computer.

AUDIO

PC IN

Notes:

(1) Computer signals which can be input are those with a horizontal scanning frequency of 15.5 to 110 kHz and vertical scanning frequency of 48 to 120 Hz. (However, signals cannot be displayed if signals exceeding 1200 lines will not be displayed properly.)

(2) The display resolution is a maximum of 640 × 480 dots when the aspect mode is set to "NORMAL", and 852 × 480 dots when the aspect mode is set to "FULL". If the display resolution exceeds these maximums, it may not be possible to show fine detail with sufficient clarity.

(3) The PC input terminals are DDC1/2B-compatible. If the computer being connected is not DDC1/2B-compatible, you will need to make setting changes to the computer at the time of connection.

(4) Some PC models cannot be connected to the set.

(5) An adapter is required to use the PC cable (D-sub 15P) to connect a Macintosh computer to the set.

(6) There is no need to use an adapter for computers with DOS/V compatible D-sub 15P terminal.

(7) The computer shown in the illustration is for example purposes only.

(8) Additional equipment and cables shown are not supplied with this set.

(9) Do not set the horizontal and vertical scanning frequencies for PC signals which are above or below the specified frequency range.

**Signal Names for D-sub 15P Connector**
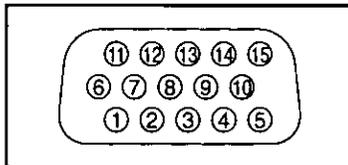
Pin layout for PC input
terminal

Pin No.	Signal Name	Pin No.	Signal Name	Pin No.	Signal Name
①	R	⑥	GND (Ground)	⑪	GND (Ground)
②	G	⑦	GND (Ground)	⑫	SDA
③	B	⑧	GND (Ground)	⑬	HD/SYNC
④	GND (Ground)	⑨	NC (not connected)	⑭	VD
⑤	GND (Ground)	⑩	GND (Ground)	⑮	SCL

How to connect the SERIAL Terminals

The SERIAL terminal is used when the Wide Plasma Display is controlled by a computer.

COMPUTER

RS-232C cable

D-sub 9p

SERIAL

Pin layout for RS-232C
Conversion cable
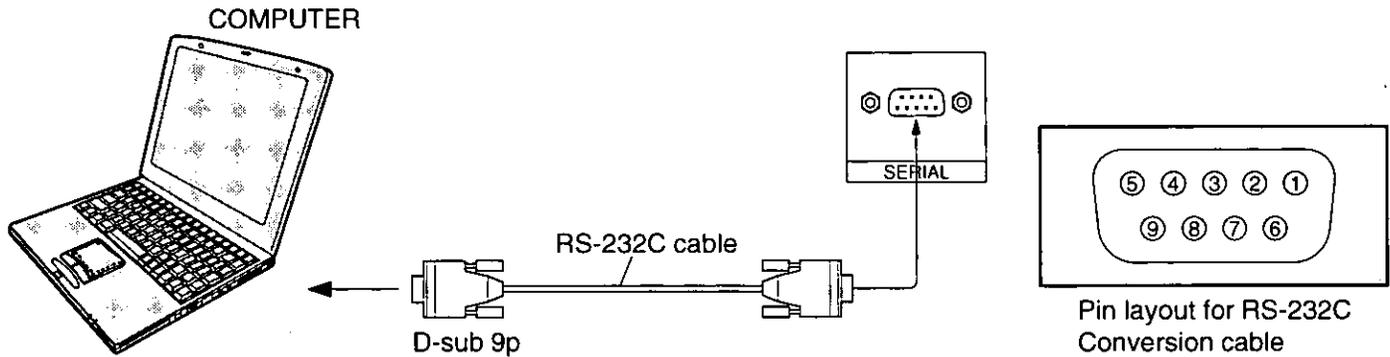
Notes:
(1) Use the RS-232C cable to connect the computer to the Wide Plasma Display.
(2) The computers shown is for example purposes only.
(3) Additional equipment and cables shown are not supplied with this set.

The SERIAL terminal conforms to the RS-232C interface specification, so that the Wide Plasma Display can be controlled by a computer which is connected to this terminal.
The computer will require software which allows the sending and receiving of control data which satisfies the conditions given below. Use a computer application such as a programming language to software. Refer to the documentation for the computer application for details.

Communication parameters

Signal level	RS-232C compliant
Synchronization method	Asynchronous
Baud rate	9600 bps
Parity	None
Character length	8 bits
Stop bit	1 bit
X parameter	None
S parameter	None

RS-232C Conversion cable	
D-sub 9-pin female	Details
②	R X D
③	T X D
⑤	GND
④ ⑥	Shorted
⑦ ⑧	Shorted
①・⑨	NC

Basic format for control data
The transmission of control data from the computer starts with a STX signal, followed by the command, the parameters, and lastly an ETX signal in that order. If there are no parameters, then the parameter signal does not need to be sent.

STX C1 C2 C3 (: P1 P2 P3 P4 P5 ETX)

- Start (02h)
- 3-character command (3bytes)
- Colon
- Parameter(s) (1 - 5 bytes)
- End (03h)
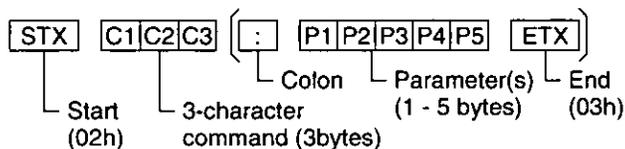
Notes:
(1) If multiple commands are transmitted, be sure to wait for the response for the first command to come from this unit before sending the next command.
(2) If an incorrect command is sent by mistake, this unit will send an "ER401" command back to the computer.

Command

Command	Parameter	Control details
PON	None	Power ON
POF	None	Power OFF
AUU	None	Volume increase
AUD	None	Volume decrease
AMT	None	Mute (toggle)
IIS	None	Input select (toggle)
	VID	AV Mode
	YP1	Component / RGB mode (processed as a Y/PB/PR or RGB signals as set by this unit)
	RG1	PC mode
DAM	None	Screen mode select (toggle)
	NORM	NORMAL (4:3)
	ZOOM	ZOOM
	FULL	FULL
	JUST	JUST
	SELF	Panasonic AUTO

Power ON/OFF and Input Signal Selection

Power ON/OFF

Power Indicator — Remote Control Sensor

Connecting the plug to the Wall Outlet

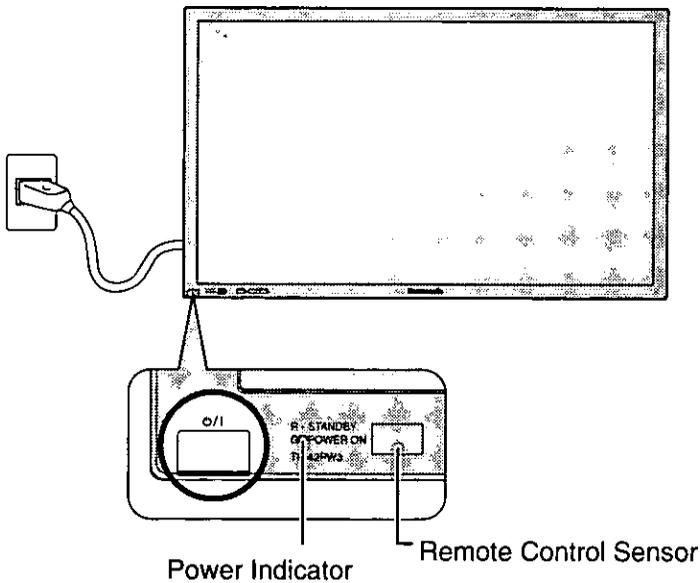Push the POWER switch on the Wide Plasma Display to turn the set on POWER-ON

| Power Indicator: Green |

Example: The screen below is displayed for a while after the Wide Plasma Display is turned on. (setting condition is an example.)

When the POWER is turned on for the first time, the LANGUAGE selection screen is displayed.

From the second time on, language selection can be done from the setup menu. (see page 21)

Select the desired language using the ▲ and ▼ keys and press the store ⊙ button.

OSD LANGUAGE
English (UK)
Deutsch
Français
Italiano
Español
ENGLISH (US)
日本語

From the second time on, the screen shown below is displayed for a while (setting condition is an example).

| VIDEO |
| NORMAL |
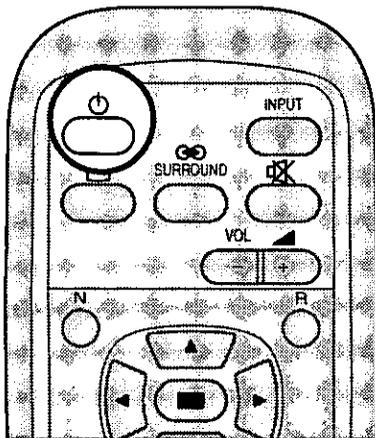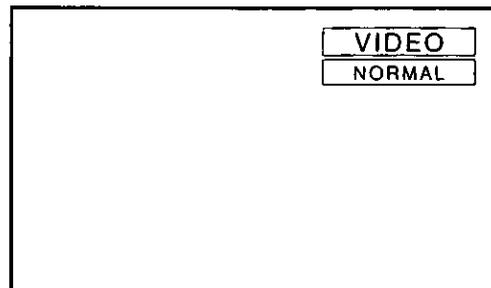
Press the Φ button on the remote control to turn the Wide Plasma Display off

| Power Indicator: Red (standby) |

Press the Φ button on the remote control to turn the Wide Plasma Display on

| Power Indicator: Green |

To turn the power for the Wide Plasma Display off, press the Φ switch on the Wide Plasma Display, when the Wide Plasma Display is on or in standby mode.

18

Select the Input Signal
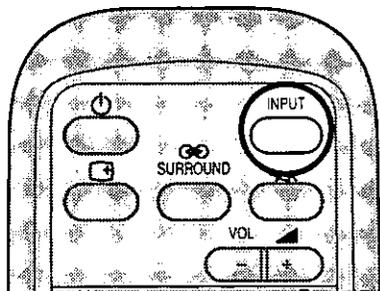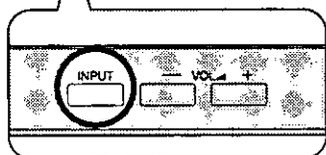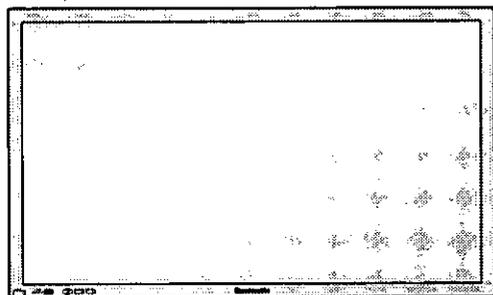
INPUT

Press the INPUT button to select the input video signal desired from equipment such as a VCR which has been connected to the Wide Plasma Display.

Input signals will change as follows:
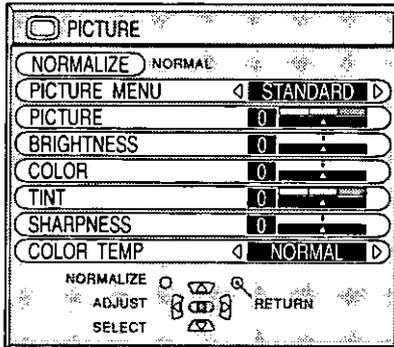
For COMPONENT INPUT (see page 30)

→ VIDEO ──→ COMPONENT ──→ PC ─
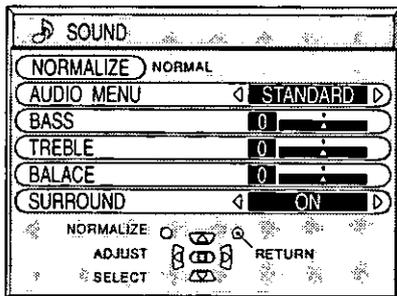
For RGB INPUT (see page 30)

→ VIDEO ──→ RGB ──→ PC ─
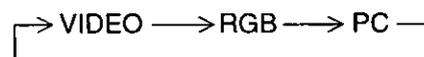
To PICTURE adjust menu
(see page 28)

```
⬭ PICTURE
(NORMALIZE) NORMAL
PICTURE MENU    ◁ STANDARD ▷
PICTURE         0 ▬▬▬▬▲▬▬
BRIGHTNESS      0 ▬▬▬▬▲▬▬
COLOR           0 ▬▬▬▬▲▬▬
TINT            0 ▬▬▬▲▬▬▬
SHARPNESS       0 ▬▬▬▬▲▬▬
COLOR TEMP      ◁ NORMAL ▷
    NORMALIZE  ○ ▽▲ ⊕
      ADJUST   ◁⬤▷   RETURN
      SELECT   ▽▲
```

To SOUND adjust menu
(see page 26)

```
♪ SOUND
(NORMALIZE) NORMAL
AUDIO MENU      ◁ STANDARD ▷
BASS            0 ▬▬▲▬▬▬
TREBLE          0 ▬▬▲▬▬▬
BALACE          0 ▬▬▲▬▬▬
SURROUND        ◁ ON ▷
    NORMALIZE  ○ ▽▲ ⊕
      ADJUST   ◁⬤▷   RETURN
      SELECT   ▽▲
```

To PICTURE POS./SIZE adjust
menu (see page 24)

```
PICTURE POS./SIZE
(NORMALIZE) NORMAL
⬜ H-POS        ▬▬▬▲▬▬▬
↔ H-SIZE       ▬▬▬▲▬▬▬
⬜ V-POS        ▬▬▬▲▬▬▬
↕ V-SIZE       ▬▬▬▲▬▬▬
    NORMALIZE  ○ ▽▲ ⊕
      ADJUST   ◁⬤▷   RETURN
      SELECT   ▽▲
```

Panasonic

PLASMA DISPLAY

To SIGNAL screen for VIDEO
(see page 31)

SIGNAL	[VIDEO]
3D Y/C FILTER (NTSC) ◁	ON ▷
COLOR SYSTEM ◁	AUTO ▷
Panasonic AUTO (4:3) ◁	NORMAL ▷

① Press to select "SIGNAL" menu.
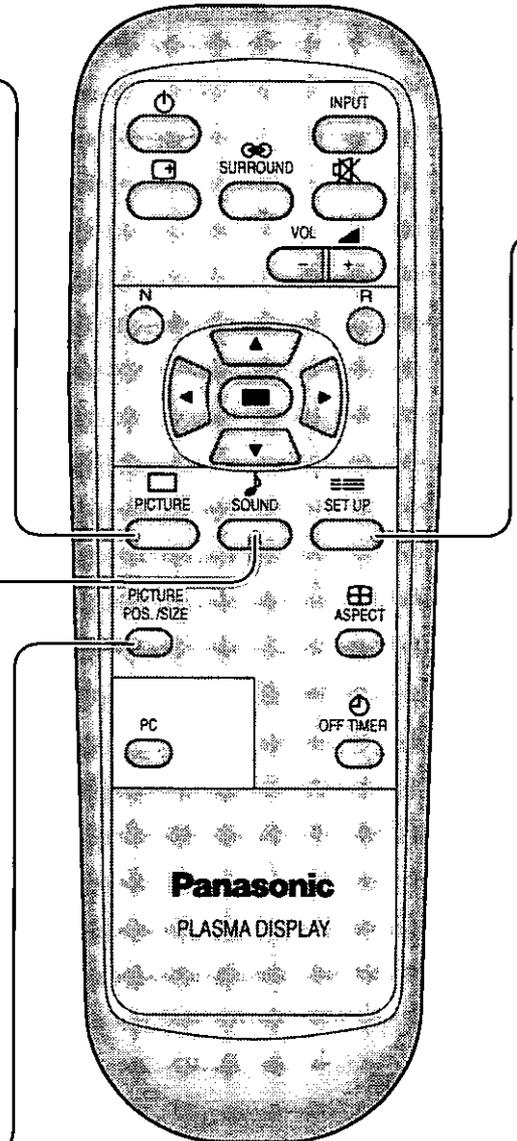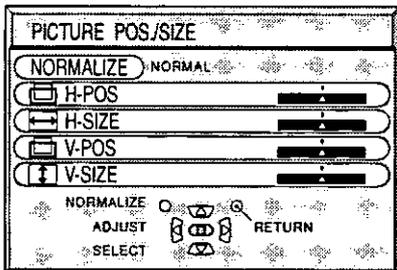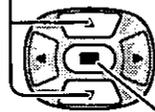
② Press to access "SIGNAL" setup menu.

To SET UP menu (see page 30)

SET UP	
COMPONENT/RGB-IN SELECT ◁	RGB ▷
SIGNAL	
OSD LANGUAGE ◁	ENGLISH (US) ▷
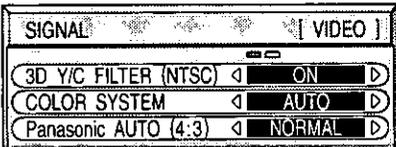
SELECT RETURN

To SIGNAL screen for RGB
(see page 32)

SIGNAL	[RGB]
SYNC ◁	H & V ▷
PULL-IN RANGE ◁	NARROW ▷
CLAMP POSITION	
H-FREQ. 31.5	kHz
V-FREQ. 60.0	Hz

Press the R button to
return to "SET UP" menu.

To SIGNAL screen for PC
(see page 32)

SIGNAL	[PC]
SYNC ◁	H & V ▷
PULL-IN RANGE ◁	NARROW ▷
CLAMP POSITION	
H-FREQ. 31.5	kHz
V-FREQ. 60.0	Hz

Note:
"SIGNAL" setup menu displays different setting condition for each input signals. (see page 19)

Selecting the On-Screen Menu Language

SET UP

Press to display the SET UP menu.
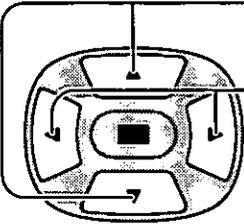
Press to select OSD LANGUAGE.

Press to select your preferred language.

Selectable languages

English (UK)
Deutsch
Français
Italiano
Español
ENGLISH (US)
日本語 ····· (Japanese)

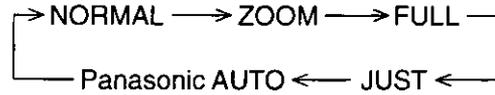| SET UP	
COMPONENT/RGB-IN SELECT ◁	RGB ▷
SIGNAL	
OSD LANGUAGE ◁	ENGLISH (US) ▷

SELECT RETURN
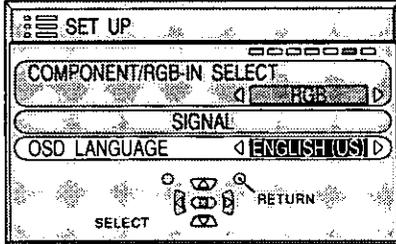
ASPECT Controls

The Wide Plasma Display will allow you to enjoy viewing the picture at its maximum size, including wide screen cinema format picture.
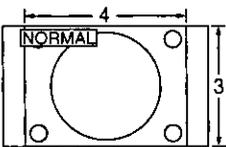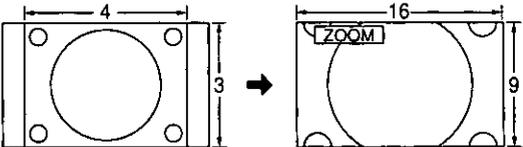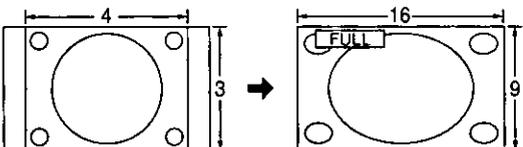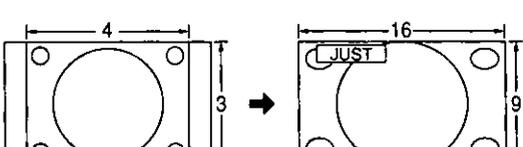
⊞
ASPECT
○
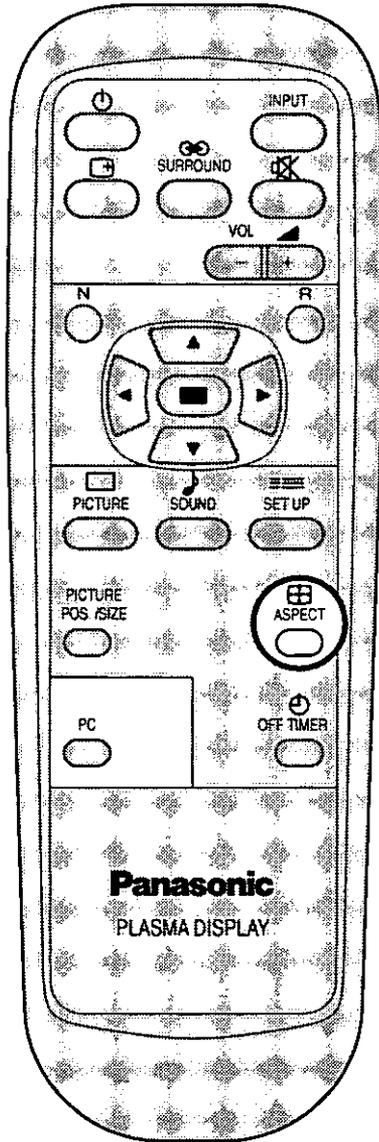
ASPECT button

The aspect mode changes each time the ASPECT button is pressed.

```
┌→ NORMAL ──→ ZOOM ──→ FULL ─┐
│                             │
└─ Panasonic AUTO ←── JUST ←──┘
```

Notes:

(1) During RGB and PC input signal modes, the mode switches between "NORMAL" and "FULL" only.

(2) For a 525p (480p) signal input during "COMPONENT" input signal mode, the mode switches between "ZOOM" and "FULL" only.

(3) For a 1125i (1080i), 750p (720p) signal input during "COMPONENT" input signal mode, the mode is set to "FULL" mode, and switching is not possible.
For a 525i (480i), 625i (575i) signal input during "Component" input signal mode, "Panasonic Auto" can not be selected.

(4) The aspect mode is memorized separately for each input terminal (VIDEO, COMPONENT, RGB and PC).

Mode	Picture	Explanation
NORMAL		NORMAL will display a 4:3 picture at its standard 4:3 size.
ZOOM		ZOOM mode magnifies the central section of the picture.
FULL		FULL will display the picture at its maximum size but with sight elongation.
JUST		JUST mode will display a 4:3 picture at its maximum size but with aspect correction applied to the center of the screen so that elongation is only apparent at the left and right edges of the screen. The size of the picture will depend on the original signal.
Panasonic AUTO	For an elongated image / Image is expanded / Changes in accordance with the Panasonic AUTO mode setting (see page 31) / For a 4:3 image	The display will automatically become enlarged (depending on the picture source), allowing you to view the picture at its maximum size. **Note:** Panasonic AUTO mode is designed to automatically adjust the aspect ratio to handle a mix of 16:9 and 4:3 program material. Certain 4:3 program material, such as stock market data screens, may occasionally cause the image size to change unexpectedly. When viewing such programs, it is recommended that the ASPECT be set to NORMAL.
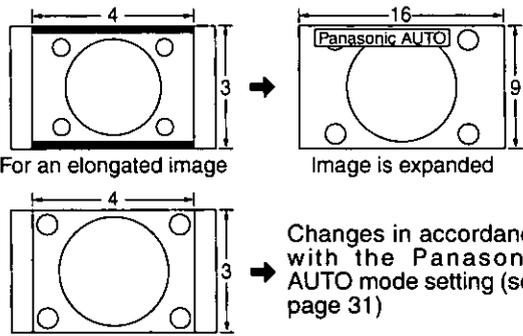
Notes:
(1) Do not allow 4:3 mode to be displayed for an extended period, as this can cause a permanent after-image to remain on the Plasma Display Panel.
(2) The S-VIDEO terminal on this set can detect specially encoded signals that are compatible with a wide screen monitor. When a full image from the S-VIDEO terminal of specially encoded video is detected by the set, the screen size is automatically set to FULL mode.

Adjusting PICTURE POS./SIZE
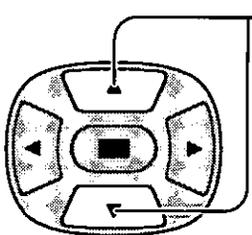
Adjusting screen

1

⊞
ASPECT

Press to select the screen mode to adjust (see page 23).
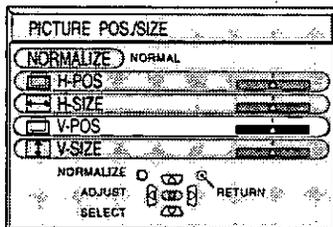
2

PICTURE
POS./SIZE

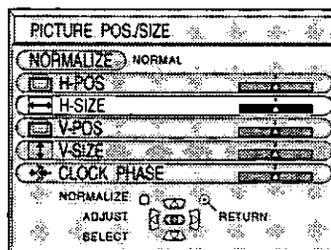Press to display the PICTURE POS./ SIZE menu.
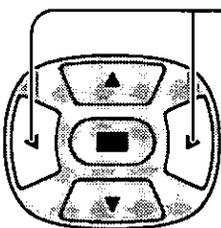
Press to select H-POS/H-SIZE/V-POS/ V-SIZE/CLOCK PHASE.

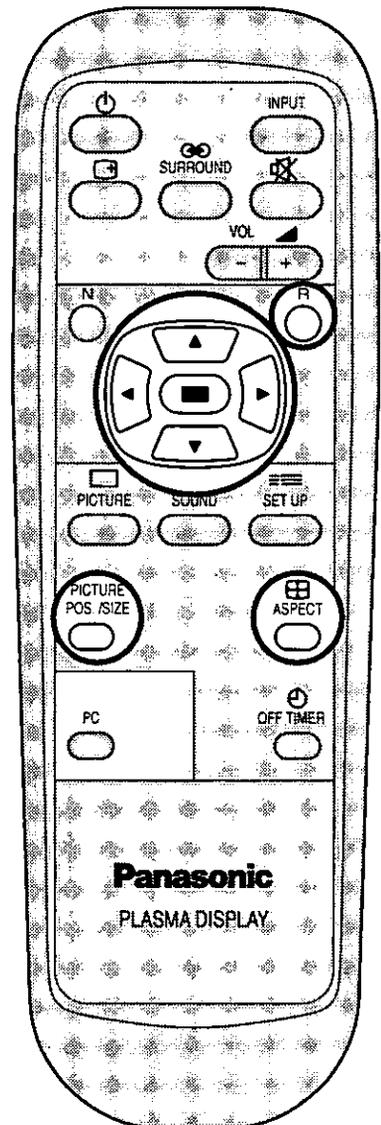| During "VIDEO" and "COMPONENT" input signal modes.	During "RGB" and "PC" input signal modes.

PICTURE POS./SIZE

NORMALIZE NORMAL
H-POS
H-SIZE
V-POS
V-SIZE
NORMALIZE
ADJUST   RETURN
SELECT

PICTURE POS./SIZE

NORMALIZE NORMAL
H-POS
H-SIZE
V-POS
V-SIZE
CLOCK PHASE
NORMALIZE
ADJUST   RETURN
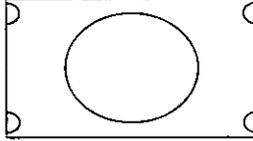SELECT

3

Press to adjust screen/position (see page 25).

R

Press to exit adjust mode.

Panasonic
PLASMA DISPLAY

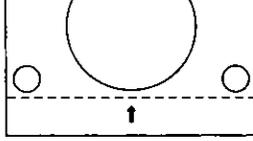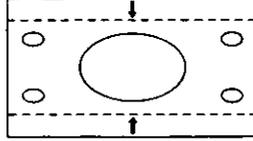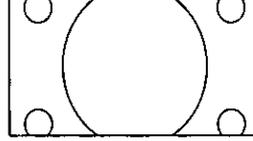**Notes:**
(1) Adjustment details are memorized separately for different input signal formats (Adjustments for component signals are memorized for 525i (480i), 625i (575i), 525p (480p), 1125i (1080i) and 750p (720p) each, and RGB/PC signals are memorized for each frequency.)
(2) If a "Cue" or "Rew" signal from a VCR or DVD player is received, the picture position will shift up or down. This picture position movement cannot be controlled by the PICTURE POS./SIZE function.

	When the Position Left "◄" button is pressed	When the Position Right "►" button is pressed
H-POS		
H-SIZE	When the Position Left "◄" button is pressed	When the Position Right "►" button is pressed
V-POS	When the Position Left "◄" button is pressed	When the Position Right "►" button is pressed
V-SIZE	When the Position Left "◄" button is pressed	When the Position Right "►" button is pressed
CLOCK PHASE (RGB/PC in Mode)	Flickering and distortion can be eliminated by using the Position Left "◄" or Right "►" button to carry out adjustment.	
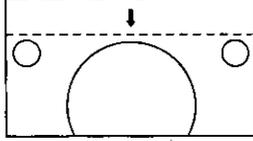
🔆 Helpful Hint (ᴺₒ / ⟨NORMALIZE⟩ Normalization)
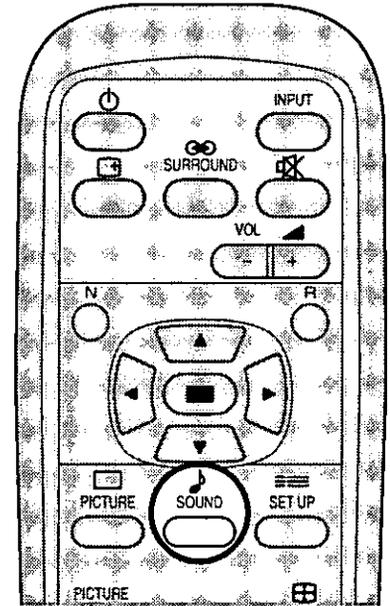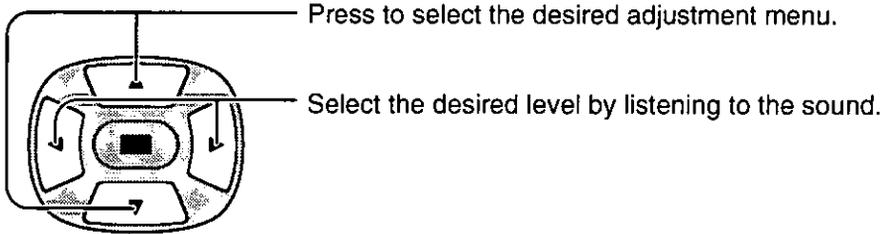
While the PICTURE POS./SIZE display is active, if either the N button on the remote control is pressed at any time or the ⊙ (ACTION button) is pressed during "NORMALIZE", then all adjustment values are returned to the factory settings.

SOUND Adjustment

1 Press the SOUND ♪ button to display the SOUND menu.
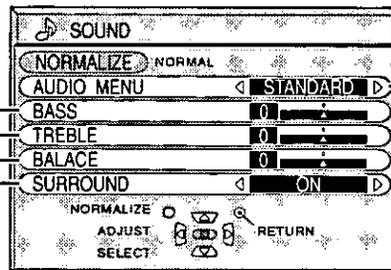
2 Select to adjust each item.

Press to select the desired adjustment menu.

Select the desired level by listening to the sound.

BASS
Adjusts low sounds

TREBLE
Adjusts high sounds

BALANCE
Adjusts left and right volumes

SURROUND (see next page)

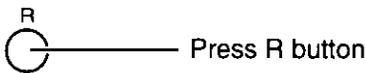| ♪ SOUND	
NORMALIZE NORMAL	
AUDIO MENU	◁ STANDARD ▷
BASS	0
TREBLE	0
BALACE	0
SURROUND	◁ ON ▷
NORMALIZE ○	
ADJUST	RETURN
SELECT	

STANDARD — Emits the original sound.

↕

AUTO — Automatically controls proper volume level.

● To end adjustments

R — Press R button

Note:
Press the SURROUND button to directly turn the surround effect ON and OFF. (see page 27)

ᛠᛂᚷ Helpful Hint (ᴺ∕ₒ / NORMALIZE Normalization)

While the "SOUND" menu is displayed, if either the N button on the remote control is pressed at any time or the (■)
(ACTION button) is pressed during "NORMALIZE", then all adjustment values are returned to the factory settings.

Mute

Useful when answering the phone or receiving unexpected visitors.

Press this button to mute the sound.
Press again to reactivate sound. Sound is also reactivated when power is turned off or
volume level is changed.
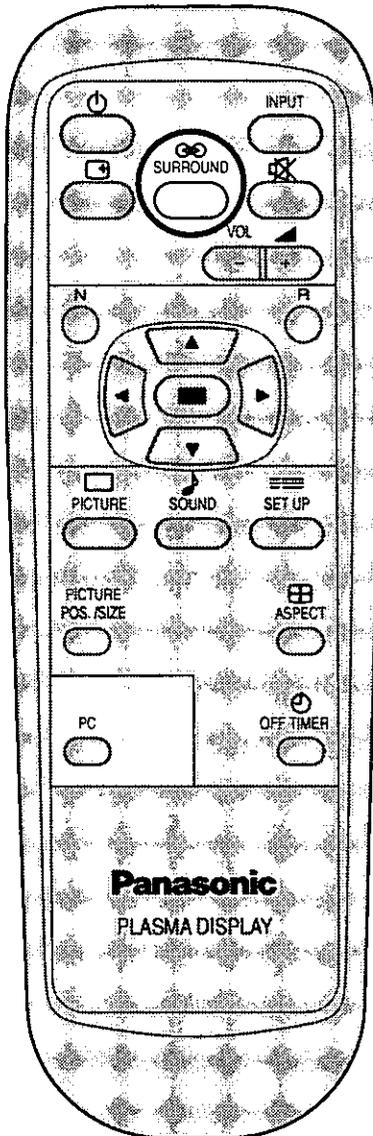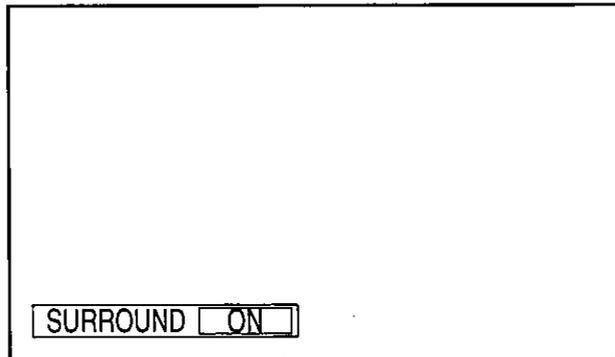
26

SURROUND Controls

⊖⊕
SURROUND

SURROUND Button

The benefits of surround sound are enormous. You can be completely enveloped in sound; just as if you were at a concert hall or cinema.

The surround setting switches on and off each time the SURROUND button is pressed.

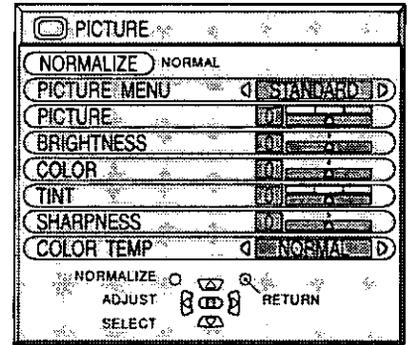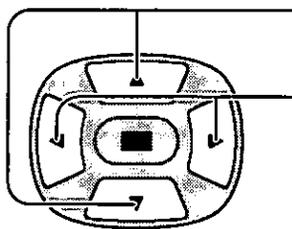## ON ⟵⟶ OFF

| SURROUND | ON |

Note:
The surround settings are memorized separately for each SOUND mode (AUTO, STANDARD).

PICTURE Adjustments

1

PICTURE

Press the PICTURE button on the Remote Control to display the PICTURE menu.

```
┌─────────────────────────────┐
│ ◯ PICTURE                    │
│ ( NORMALIZE ) NORMAL         │
│ ( PICTURE MENU     ◁ STANDARD ▷) │
│ ( PICTURE          ▥▒▒▒▒▒▒) │
│ ( BRIGHTNESS       ▥▒▒▒▒▒▒) │
│ ( COLOR            ▥▒▒▒▒▒▒) │
│ ( TINT             ▥▒▒▒▒▒▒) │
│ ( SHARPNESS        ▥▒▒▒▒▒▒) │
│ ( COLOR TEMP   ◁ NORMAL ▷) │
│    NORMALIZE ◯ ▽▽           │
│    ADJUST  ▯▢▯  RETURN       │
│    SELECT  ▱                 │
└─────────────────────────────┘
```

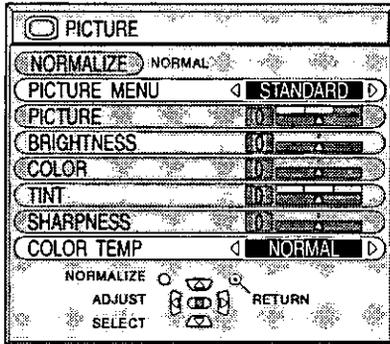**2** Select to adjust each item.

Press to select the menu to adjust.

Select the desired level by looking at the picture behind the menu.

```
┌─────────────────────────────┐
│ ◯ PICTURE                    │
│ ( NORMALIZE ) NORMAL         │
│ ( PICTURE MENU     ◁ STANDARD ▷) │
│ ( PICTURE          ▥▒▒▒▒▒▒) │
│ ( BRIGHTNESS       ▥▒▒▒▒▒▒) │
│ ( COLOR            ▥▒▒▒▒▒▒) │
│ ( TINT             ▥▒▒▒▒▒▒) │
│ ( SHARPNESS        ▥▒▒▒▒▒▒) │
│ ( COLOR TEMP   ◁ NORMAL ▷) │
│    NORMALIZE ◯ ▽▽           │
│    ADJUST  ▯▢▯  RETURN       │
│    SELECT  ▱                 │
└─────────────────────────────┘
```

Press the left ◄ or right ► button to switch between modes.

$$\text{STANDARD} \longleftrightarrow \text{DYNAMIC}$$
$$\longrightarrow \text{CINEMA} \longleftarrow$$

STANDARD
For viewing in standard (evening lighting) environments.
This menu selects the normal levels of BRIGHTNESS and PICTURE.

DYNAMIC
For viewing in brighter environments.
This menu selects higher than normal levels of BRIGHTNESS and PICTURE.

CINEMA
Ideal for movies.
● Can be selected for VIDEO/ COMPONENT.

Note:
(1) If you would like to change the picture and color of the selected PICTURE menu to something else, adjust using the items in the PICTURE menu. (see page 29)

Press the left ◄ or right ► button to switch between modes.

$$\text{NORMAL} \longleftrightarrow \text{COOL} \longleftrightarrow \text{WARM}$$

☀ Helpful Hint (ᴺ/ᴼ / NORMALIZE Normalization)

While the "PICTURE" menu is displayed, if either the N button on the remote control is pressed at any time or the ⦿ (ACTION button) is pressed during "NORMALIZE", then all adjustment values are returned to the factory settings.

Item	Effect		Adjustments
PICTURE	◀ Less	▶ More	Selects the proper brightness and density for the room.
BRIGHTNESS	◀ Darker	▶ Brighter	Adjusts for easier viewing of dark pictures such as night scenes and black hair.
COLOR	◀ Less	▶ More	Adjusts slightly to a lighter color.
TINT (NTSC only)	◀ Reddish	▶ Greenish	Adjust for nice skin color.
SHARPNESS	◀ Less	▶ More	Displays a sharp image.

Notes:
(1) "COLOR" , "TINT" and "SHARPNESS" settings cannot be adjusted for "RGB" and "PC" input signal modes.
(2) You can change the level of each function (CONTRAST, BRIGHTNESS, COLOR, TINT, SHARPNESS) for each PICTURE menu.
(3) The setting details for normal, dynamic and cinema respectively are memorized separately for each input mode (VIDEO, COMPONENT, RGB and PC).
(4) The "TINT" setting can be adjusted for NTSC signal only.

Note:
There is little change when PICTURE is increased with a bright picture or reduced with a dark picture.

Helpful Hint (${}^N_O$ / NORMALIZE Normalization)

While the "PICTURE" menu is displayed, if either the N button on the remote control is pressed at any time or the ⊙ (ACTION button) is pressed during "NORMALIZE", then all adjustment values are returned to the factory settings.
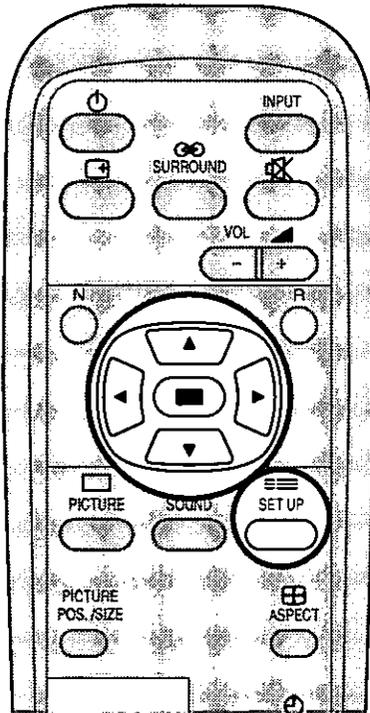
SET UP for Input Signals

COMPONENT/RGB IN SELECT

Select to match the signals from the source connected to the COMPONENT/RGB input terminals.
Y, PB, PR signals ⇨ "COMPONENT"
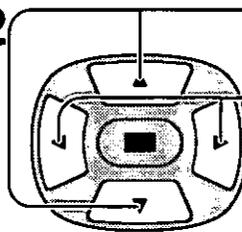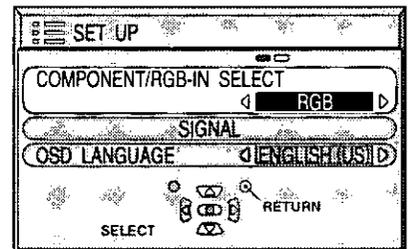R, G, B, HD, VD signals ⇨ "RGB"

1 ≡≡
SET UP

Press to display the SET UP menu screen.

2 Press to select the "COMPONENT/RGB IN SELECT".
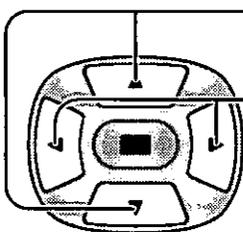
Press to select the desired mode.

```
:≡ SET UP
COMPONENT/RGB-IN SELECT
                    ◁ ▓▓▓ RGB ▓▓▓ ▷
            SIGNAL
OSD LANGUAGE   ◁ ENGLISH (US) ▷
                    RETURN
            SELECT
```

COMPONENT ⟵⟶ RGB

R

Press to exit from adjust mode.

Adjusting unnatural video images (3D Y/C FILTER)

Select the SIGNAL from the "SET UP" menu during VIDEO (S-VIDEO) input signal mode. ("SIGNAL [VIDEO]" menu is displayed.)
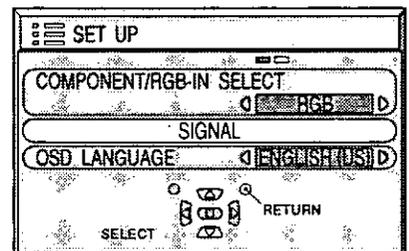
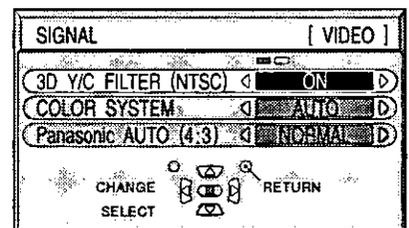Press to select the "3D Y/C FILTER (NTSC)"

Press to set ON/OFF.

```
:≡ SET UP
COMPONENT/RGB-IN SELECT
                    ◁ ▓▓ RGB ▓▓ ▷
            SIGNAL
OSD LANGUAGE   ◁ ENGLISH (US) ▷
                    RETURN
            SELECT
```

⬇ Press (■) (store) button

```
SIGNAL              [ VIDEO ]
3D Y/C FILTER (NTSC) ◁ ▓ ON ▓ ▷
COLOR SYSTEM        ◁ ▓ AUTO ▓ ▷
Panasonic AUTO (4:3) ◁ ▓ NORMAL ▓ ▷
         CHANGE         RETURN
         SELECT
```

R

Press to exit from adjust mode.
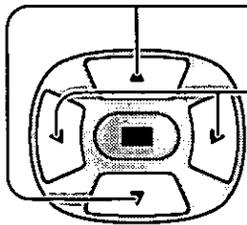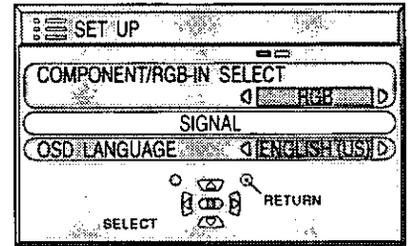
COLOR SYSTEM / Panasonic AUTO

Select SIGNAL from the "SET UP" menu during VIDEO (S-VIDEO) input
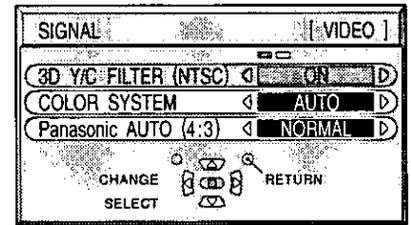signal mode.("SIGNAL [VIDEO]" menu is displayed.)

Press to select the "COLOR SYSTEM" or
"Panasonic AUTO".

Press to select each functions.
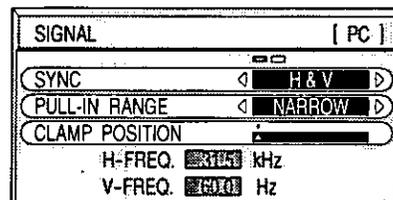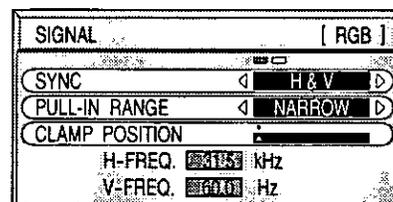
Press ⊙ (store) button

Mode	Function
Color system	Set the color system to match the input signal. If set to "AUTO", the color system is determined automatically. →AUTO↔ PAL ↔ SECAM↔ M·NTSC↔ NTSC↰
Pansonic AUTO (4:3)	Set to "NORMAL" to view 4:3 images in an unchanged format when Panasonic AUTO is selected. If you would like to view 4:3 images in "Just" format, set to "JUST".

Select SIGNAL from the "SET UP" menu during RGB or PC input signal mode.

Press to select each item.

Press to adjust.
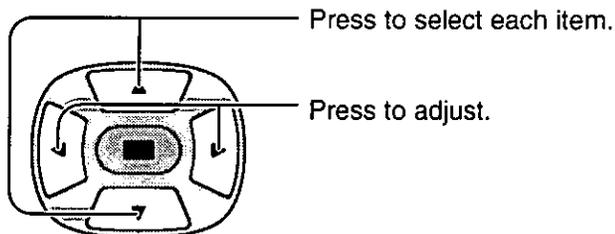
The following operation methods are the same for both the SIGNAL [RGB] and SIGNAL [PC].

SIGNAL	[RGB]
SYNC	◁ ■ H & V ■ ▷
PULL-IN RANGE	◁ ■ NARROW ■ ▷
CLAMP POSITION	
H-FREQ. 31.5	kHz
V-FREQ. 60.0	Hz

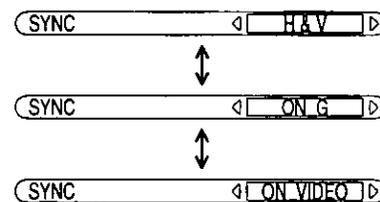| SIGNAL	[PC]
SYNC	◁ ■ H & V ■ ▷
PULL-IN RANGE	◁ ■ NARROW ■ ▷
CLAMP POSITION	
H-FREQ. 31.5	kHz
V-FREQ. 60.0	Hz

SYNC

Setting RGB sync signal setting:

Confirm that the input is set to RGB INPUT (this setting is valid only for RGB INPUT).

 H&V: The H and V sync signals are input from the HD/VD (BNC) connector.
 ON G: Uses a synchronized signal on the Video G signal, which is input from the G (BNC) connector.
 ON VIDEO: Compatible with the scart plug (Europe)
     The composite video signal input from the VIDEO input terminal is used by dividing the sync signals.

SYNC ◁ H & V ▷
↕
SYNC ◁ ON G ▷
↕
SYNC ◁ ON VIDEO ▷

Setting PC sync signal setting:

Confirm that the input is set to PC INPUT (this setting is valid only for PC INPUT).
 H&V: The H and V sync signals are input from the HD/VD (BNC) connector.
 ON G: Uses a synchronized signal on the Video G signal, which is input from the G (BNC) connector.

PULL IN RANGE

Sets the width for different frequencies.

(This setting is the same for both SIGNAL [RGB] and SIGNAL [PC].)

PULL IN RANGE ◁ NARROW ▷
↕
PULL IN RANGE ◁ WIDE ▷
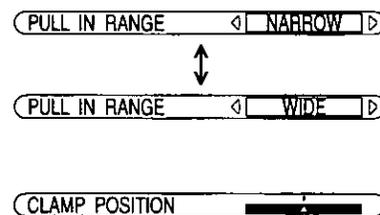
CLAMP POSITION

Adjusts the clamp position.

The following operation methods are the same for "SIGNAL" menu during, RGB and PC input signal mode.
Normally, these adjustments are set to appropriate levels and, therefore, do not need to be altered.

CLAMP POSITION ▬▬▪▬▬
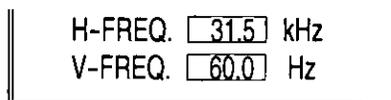
H-FREQ (kHz)/V-FREQ (Hz)

Displays the H (Horizontal)/V (Vertical) frequencies.

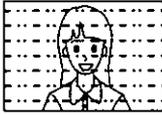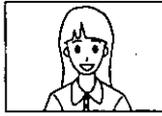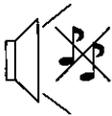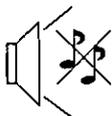This display is valid only for RGB input and PC input.
Display range:
 Horizontal 15.5 - 110 kHz
 Vertical 48 - 120 Hz

H-FREQ. 31.5 kHz
V-FREQ. 60.0 Hz

Troubleshooting

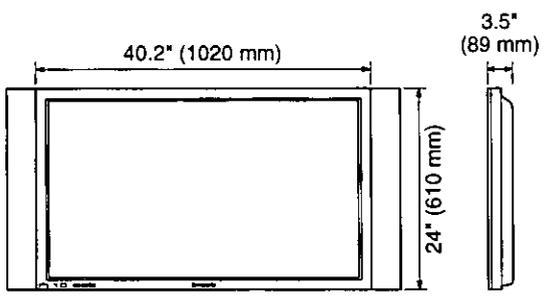| Symptoms		Checks
Picture	**Sound**	
Interface	Noisy Sound	Electrical Appliances Cars/Motorcycles Fluorescent light
Normal Picture	No Sound	Volume (Check whether the mute function has been activated on the remote control.)
No Picture	No Sound	Not plugged into AC outlet Not switched on PICTURE and BIGHTNESS/Volume setting (Check by pushing the power switch or stand-by button on the remote control.)
No Picture	Normal Sound	If a signal with a non-applicable color system format, or frequency is input, only the input terminal indication is displayed.
No Color	Normal Sound	Color controls set at minimum level. Color system (see page 28, 29)
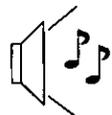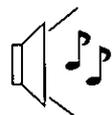
Plasma Display panel

Symptoms	Check
Some parts of the screen do not light up	The plasma display panel is manufactured using an extremely high level of precision technology, however, sometimes some parts of the screen may be missing picture elements or have luminous spots. This is not a malfunction.
After-images appear	Do not allow a still picture to be displayed for an extended period, as this can cause a permanent after-image to remain on the Wide Plasma Display. Examples of still pictures include logos, video games, computer images, teletext and images displayed in 4:3 mode.

Specifications

	TH-42PW3
Power Source	120 V AC, 50/60 Hz
Power Consumption Normal use Stand-by condition Power off condition	Max. Amps 4.0 A 1.9 W 0.7 W
Plasma Display panel	Drive method AC type 42-inch, 16:9 aspect ratio
Contrast Ratio	3000:1
Brightness Capability	(Panel only) 650 cd / m² (As a set) 400 cd / m²
Screen size	920 mm (W) × 518 mm (H) × 1056 mm (diagonal) No. of pixels 408,960 (852 (W) × 480 (H)) [2,556 × 480 dots]
Operating condition Temperature Humidity	34 °F - 104 °F (0 °C - 40 °C) 20 % - 80 %
Applicable signals Color System Scanning format PC signals	NTSC, PAL, PAL60, SECAM, Modified NTSC 525i (480i), 625i (575i), 525p (480p), 750p (720p), 1125i(1080i) VGA SVGA, XGA, SXGA, UXGA (compressed) Horizontal scanning frequency 15.5 - 110 kHz Vertical scanning frequency 48 - 120 Hz

Connection terminals		
AV	Video IN (BNC) S-VIDEO IN (MINI DIN 4PIN) AUDIO IN (RCA PIN JACK × 2)	1.0 Vp-p Y: 1 Vp-p (75 Ω), C: 0.286 Vp-p (75 Ω) 0.5 Vrms
COMPONENT/RGB	Y/G (BNC) P$_B$/B (BNC) P$_R$/R (BNC) HD VD AUDIO IN (RCA PIN JACK × 2)	1.0 Vp-p/0.7 Vp-p ± 0.35 Vp-p/0.7 Vp-p ± 0.35 Vp-p/0.7 Vp-p ± 1.0 - 5.0 Vp-p ± 1.0 - 5.0 Vp-p 0.5 Vrms
PC	(HIGH-DENSITY D-SUB 15PIN) AUDIO IN (M3.5 JACK)	R,G,B Video/0.7 Vp-p HD, VD/± 1.0 - 5.0 Vp-p 0.5 Vrms
TUNER	OPTIONAL (HIGH-DENSITY D-SUB 26PIN)	
SERIAL	EXTERNAL CONTROL TERMINAL (D-SUB9PIN) RS-232C COMPATIBLE	
SPEAKERS (6 Ω)	16W [8 W + 8 W] (10 % THD) For TY-SP42PWD3W only	

	TH-42PW3
Accessories Supplied	
Remote Control Transmitter	EUR646525
Batteries	2 × AA Size
RCA-BNC adapter plug	TJS1A4270
Ferrite core	KRCBC160928B

Optional Supplied	
Speakers	TY-SP42PWD3W
Pedestal	TY-ST42PT3-K
Wall stand	TY-ST42PW1
Wall-hanging bracket (angled)	TY-WK42PR1
Connecting Cables	TY-SCP15C03

Dimensions (W × D × H)	40.2" (1020 mm) × 24" (610 mm) × 3.5" (89 mm)

40.2" (1020 mm)   3.5" (89 mm)

24" (610 mm)

Weight (Mass)	approx. 65.0 lbs (main unit only)
	approx. 74.3 lbs (with speakers)

Note:
Design and specifications are subject to change without notice. Weight and dimensions shown are approximate.

Customer' Record

The model number and serial number of this product can be found on its rear panel. You should note this serial number in the space provided below and retain this book, plus your purchase receipt, as a permanent record of your purchase to aid in identification in the event of theft or loss, and for Warranty Service purposes.

Model Number   TH-42PW3 _____   Serial Number _____