

Panasonic®

English

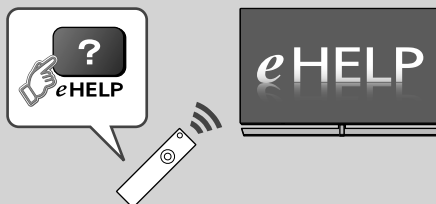
Model No.
TH-65EZ1000U
TH-77EZ1000U

Operating Instructions OLED TV



VIERA

For more detailed instructions, please refer to
[eHELP] (Built-in Operating Instructions).



- How to use [eHELP] ➔ (p. 22)

Thank you for purchasing this Panasonic product.

Please read these instructions carefully before operating this product and retain them for future reference.

Please carefully read the "Safety Precautions" of this manual before use.

The images shown in this manual are for illustrative purposes only.

M0417-1097



TQB4GC1678-1

English



- For information about the trademarks, refer to [eHELP] (Search by Purpose > Read first > Before use > Licence).

The illustration for TH-65EZ1000U is used in this manual unless otherwise mentioned.
Illustrations shown may be different between models and countries.

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Important Notice

Do not display any still part of the image for a long period

In such cases the still part of the image remains dimly on the screen ("image retention"). This is not considered a malfunction and is not covered by the warranty.

- Typical still image parts:
 - Still images shown continuously on the same area (ex. channel number, channel logo, other logos or title image, etc.)
 - Still or moving pictures viewed in 4:3 or 14:9 aspect ratio, etc.
 - Video games
- To avoid image retention, the screen saver may be activated (OLED logo moves) or the on-screen message may move after a few minutes if no signals are sent or no operations are performed.
- To avoid image retention, the screen may become dim when the motionless image is displayed. This is not a malfunction. The brightness of the screen returns to the previous level when the active image is displayed.
- Be sure to turn the TV off with the remote control to perform the panel maintenance. During the panel maintenance, LED turns to orange. (p. 20) The maintenance works as necessary.
- Set aspect ratio to [4:3 full] for 4:3 image. For details, refer to [eHELP] (Search by Purpose > Watching > For best picture).
- For more information ➡ **"Panel maintenance"** (p. 20)



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This product is licensed under the AVC patent portfolio license for the personal and non-commercial use of a consumer to (i) encode video in compliance with the AVC Standard ("AVC Video") and/or (ii) decode AVC Video that was encoded by a consumer engaged in a personal and non-commercial activity and/or was obtained from a video provider licensed to provide AVC Video. No license is granted or shall be implied for any other use.

Additional information may be obtained from MPEG LA, LLC.

See <http://www.mpegla.com>.

Panasonic and its affiliates make no representations or warranties of any kind with respect to the USB devices and the performance of communication between the USB devices and the USB port of Panasonic products, and expressly disclaims any and all warranties, whether express or implied or otherwise, including without limitation any implied warranty of fitness for a particular purpose, any loss of data, and any implied warranties arising from course of dealing or course of performance of data communication between the USB devices and the USB port of Panasonic products.

Transport only in upright position.



This mark shows that the construction of the product is double-insulated.



This mark indicates the product operates under AC voltage.

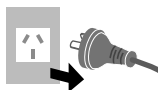
Safety Precautions

To help avoid risk of electrical shock, fire, damage or injury, please follow the warnings and cautions below:

■ Mains plug and lead

Warning

If you detect anything unusual, immediately remove the mains plug.



- This TV is designed to operate on AC ~ 220-240 V, 50 / 60 Hz.
- Insert the mains plug fully into the mains socket.
- To turn Off the apparatus completely, you must pull the mains plug out of the mains socket. Consequently, the mains plug should be easily accessible at all times.
- Disconnect the mains plug when cleaning the TV.
- Do not touch the mains plug with wet hands.



- Do not damage the mains lead.

- Do not place a heavy object on the lead.



- Do not place the lead near a high temperature object.



- Do not pull on the lead. Hold onto the mains plug body when disconnecting the plug.



- Do not move the TV with the lead plugged into a mains socket.
- Do not twist the lead, bend it excessively or stretch it.
- Do not use a damaged mains plug or mains socket.
- Ensure the TV does not crush the mains lead.

■ Take care

Warning

- Do not remove covers and never modify the TV yourself as live parts are accessible and risk of electric shock when they are removed. There are no user serviceable parts inside.
- Do not expose the TV to rain or excessive moisture. This TV must not be exposed to dripping or splashing water and objects filled with liquid, such as vases, must not be placed on top of or above the TV.



- Do not insert foreign objects into the TV through the air vents.
- If the TV is used in an area where insects may easily enter the TV.



It is possible for insects to enter the TV, such as small flies, spiders, ants, etc. which may cause damage to the TV or become trapped in an area visible on the TV, e.g. within the screen.

- Do not use an unapproved pedestal / mounting equipment. Be sure to ask your local Panasonic dealer to perform the setup or installation of approved wall-hanging brackets.
- Do not apply any strong force or impact to the display panel.
- Ensure that children do not climb on the TV.
- Do not place the TV on sloping or unstable surfaces, and ensure that the TV does not hang over the edge of the base.



Important information

If the TV is not positioned in a sufficiently stable location, it can be potentially hazardous due to falling. Many injuries, particularly to children, can be avoided by taking simple precautions such as:

- Using cabinets or stands recommended by the manufacturer of the TV.
- Only using furniture that can safely support the TV.
- Ensuring the TV is not overhanging the edge of the supporting furniture.
- Not placing the TV on tall furniture (for example, cupboards or bookcases) without anchoring both the furniture and the TV to a suitable support.
- Not standing the TV on cloth or other materials placed between the TV and supporting furniture.
- Educating children about the dangers of climbing on furniture to reach the TV or its controls.

- This TV is designed for indoor use.
- This TV is designed for table-top use.

- Do not expose the TV to direct sunlight and other sources of heat.



To prevent the spread of fire, keep candles or other open flames away from this product at all times



■ Suffocation / Choking Hazard

Warning

- The packaging of this product may cause suffocation, and some of the parts are small and may present a choking hazard to young children. Keep these parts out of reach of young children.

■ Pedestal

Warning

- Do not disassemble or modify the pedestal.

Caution

- Do not use any pedestal other than the one provided with this TV.
- Do not use the pedestal if it becomes warped or physically damaged. If this occurs, contact your nearest Panasonic dealer immediately.
- During setup, make sure that all screws are securely tightened.
- Ensure that the TV does not suffer any impact during installation of the pedestal.
- Ensure that children do not climb onto the pedestal.
- Install or remove the TV from the pedestal with at least two people.
- Install or remove the TV according to the specified procedure.

■ Radio waves

Warning

- Do not use the TV and Touch Pad Controller in any medical institutions or locations with medical equipment. Radio waves may interfere with the medical equipment and may cause accidents due to malfunction.
- Do not use the TV and Touch Pad Controller near any automatic control equipment such as automatic doors or fire alarms. Radio waves may interfere with the automatic control equipment and may cause accidents due to malfunction.
- Keep at least 15 cm away from the TV and Touch Pad Controller if you have a cardiac pacemaker. Radio waves may interfere with the operation of the pacemaker.
- Do not disassemble or alter the TV and Touch Pad Controller in any way.

■ Built-in wireless LAN

Caution

- Do not use the built-in wireless LAN to connect to any wireless network (SSID*) for which you do not have usage rights. Such networks may be listed as a result of searches. However, using them may be regarded as illegal access.

*SSID is a name for identifying a particular wireless network for transmission.

- Do not subject the built-in wireless LAN to high temperatures, direct sunlight or moisture.
- Data transmitted and received over radio waves may be intercepted and monitored.
- The built-in wireless LAN uses 2.4 GHz and 5 GHz frequency bands. To avoid malfunctions or slow response caused by radio wave interference when using the built-in wireless LAN, keep the TV away from other devices that use 2.4 GHz and 5 GHz signals such as other wireless LAN devices, microwave ovens, and mobile phones.
- When problems occur due to static electricity, etc., the TV might stop operating to protect itself. In this case, turn the TV off at the Mains power On / Off switch, then turn it back on.

■ Bluetooth® wireless technology

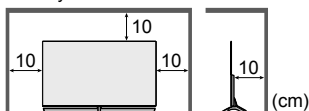
Caution

- The TV and Touch Pad Controller use the 2.4 GHz radio frequency ISM band (Bluetooth®). To avoid malfunctions or slow response caused by radio wave interference, keep the TV and Touch Pad Controller away from the devices such as other wireless LAN devices, other Bluetooth devices, microwaves, mobile phones and the devices that use 2.4 GHz signal.

■ Ventilation

Caution

Allow sufficient space (at least 10 cm) around the TV in order to help prevent excessive heat, which could lead to early failure of some electronic components.



- Ventilation should not be impeded by covering the ventilation openings with items such as newspapers, tablecloths and curtains.



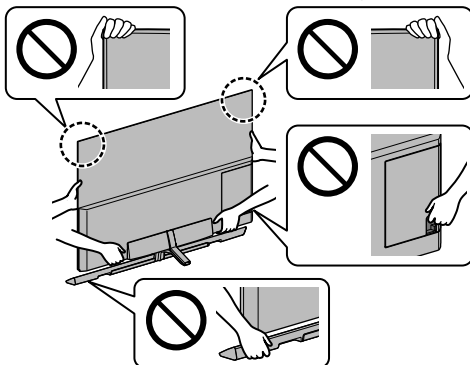
- Whether you are using a pedestal or not, always ensure the vents at the bottom of the TV are not blocked and there is sufficient space to enable adequate ventilation.

■ Moving the TV / speaker

Caution

Before moving the TV, disconnect all cables and remove the speaker from the pedestal.

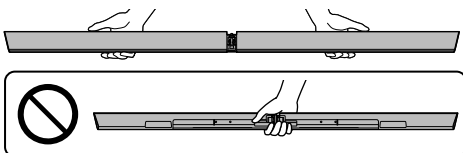
- At least two people are required to move the TV.
Support the TV as shown below to prevent injury that may be caused by the tipping or falling of TV.
- Do not hold the screen part when moving the TV.



- Transport only in upright position. Transporting the TV with its display panel facing upwards or downwards may cause damage to the internal circuitry.
- Do not hold the speaker in one hand.
- Do not hold the speaker net part.

Support the speaker as shown below to prevent injury that may be caused by the falling of the speaker.

- Be careful not to nip the fingers between the speaker and pedestal when installing the speaker to the pedestal.



■ When not in use for a long time

Caution

This TV will still consume some power even in the Off mode, as long as the mains plug is still connected to a live mains socket.

- Remove the mains plug from the wall socket when the TV is not in use for a prolonged period of time.

■ Excessive volume

Caution

- Do not expose your ears to excessive volume from the headphones. Irreversible damage can be caused.
- If you hear a drumming noise in your ears, turn down the volume or temporarily stop using the headphones.



■ Battery for the Remote Control / Touch Pad Controller

Caution

- Incorrect installation may cause battery leakage, corrosion and explosion.
- Replace only with the same or equivalent type.
- Do not mix old and new batteries.
- Do not mix different battery types (such as alkaline and manganese batteries).
- Do not use rechargeable batteries (Ni-Cd, etc.).
- Do not burn or break up batteries.
- Do not expose batteries to excessive heat such as sunshine, fire or the like.
- Make sure you dispose of batteries correctly.
- Remove the battery from the unit when not using for a prolonged period of time to prevent battery leakage, corrosion and explosion.

■ Magnetic influence

Caution

- Keep magnet field sensitive objects, such as a cardiac pacemaker, magnetic / IC card, etc. away from the speaker. Otherwise, malfunction or data loss may occur.

Accessories

Standard accessories

Remote Control

➔ (p. 18)

- N2QAYB001120



Touch Pad Controller

➔ (p. 19)

- N2QBYA000019

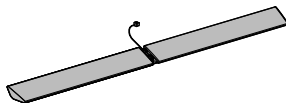


Pedestal

➔ (p. 7)

Speaker

➔ (p. 7)

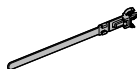


ACCESSORIES FOR SPEAKER WALL-HANGING

➔ (p. 27)

Cable tie (2)

➔ (p. 16)



Batteries

- R6 (2)
(For Remote Control)

➔ (p. 19)

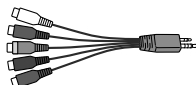
- R03 (2)
(For Touch Pad Controller)

➔ (p. 20)



AV2 (COMPONENT / VIDEO) adaptor

➔ (p. 15)



Operating Instructions with Warranty statement

Fall-prevention parts

➔ (p. 11)

- Accessories may not be placed all together. Take care not to throw them away unintentionally.

Assembling / Removing the pedestal / speaker

A Assembly screw (4)



M5 × 10 (mm)

B Assembly screw (5)



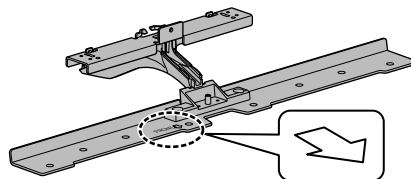
M4 × 12 (mm)

C Assembly screw

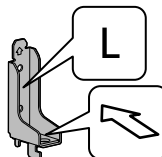


M3 × 5 (mm)

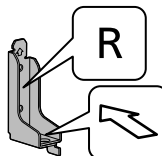
D Base



E Bracket (L)



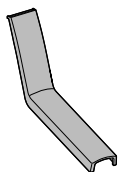
F Bracket (R)



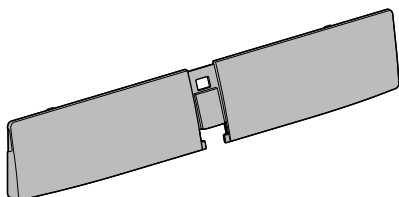
G Cable cover (front)



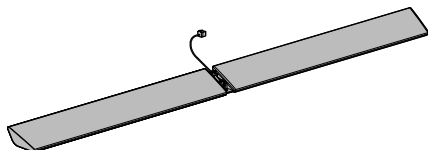
Ⓜ Cable cover (rear)



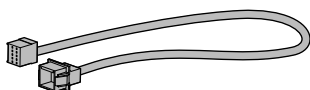
Ⓛ Cover



Ⓜ Speaker

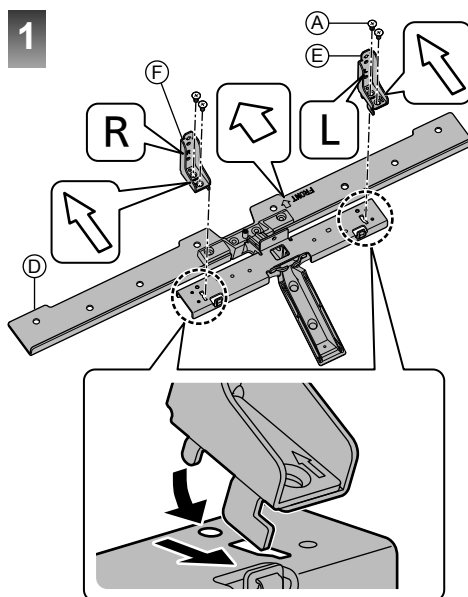


Ⓚ Speaker cable

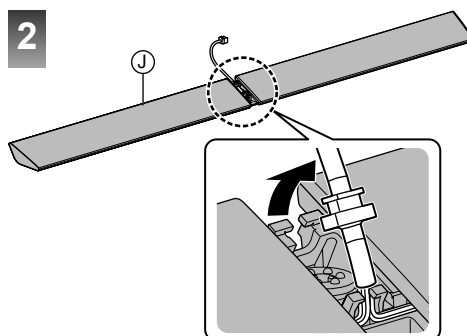


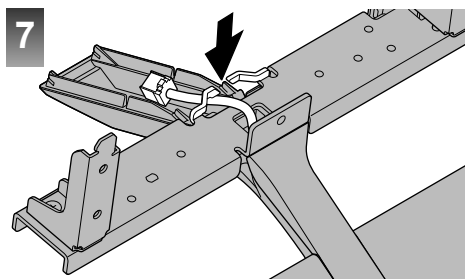
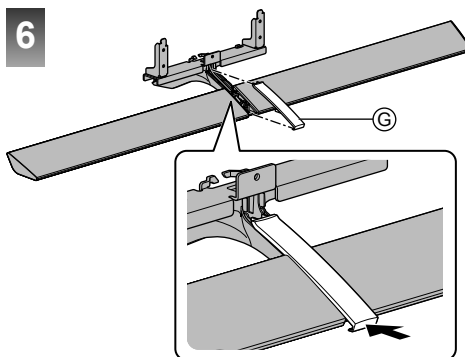
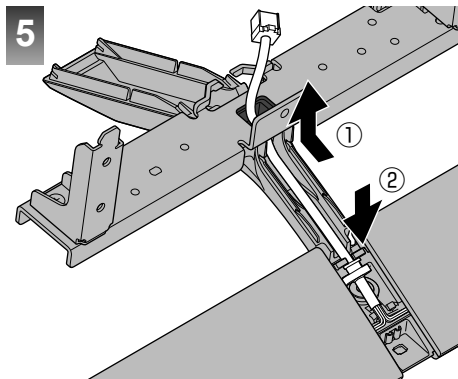
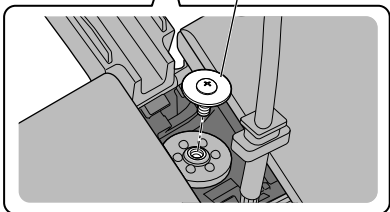
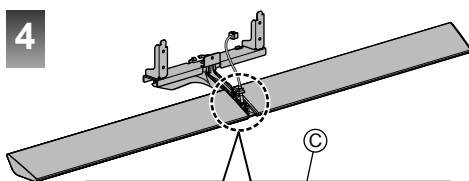
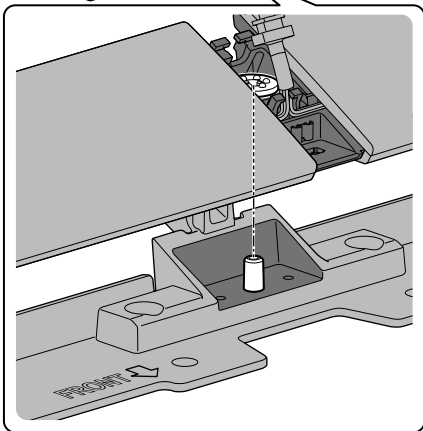
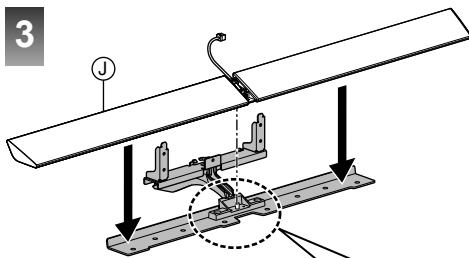
Assembling the pedestal / speaker

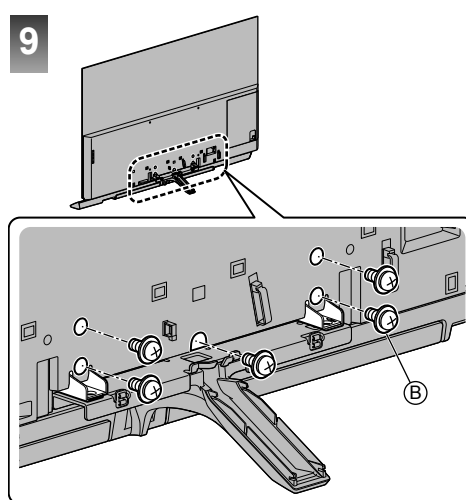
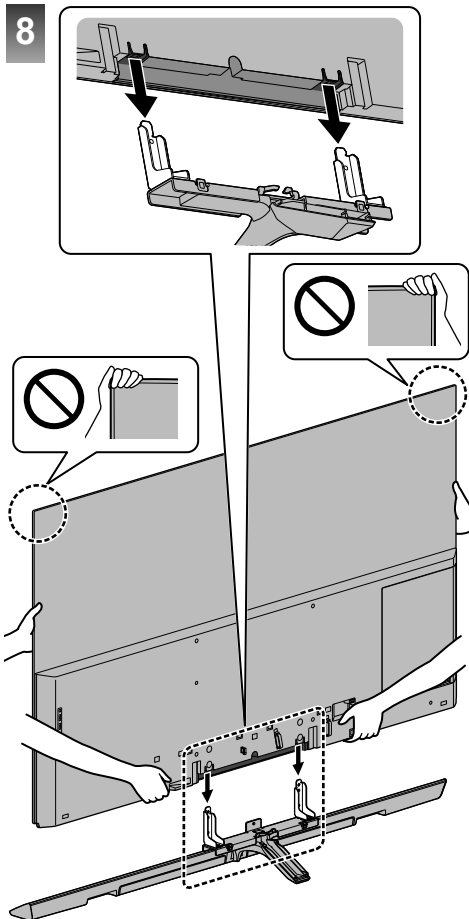
1

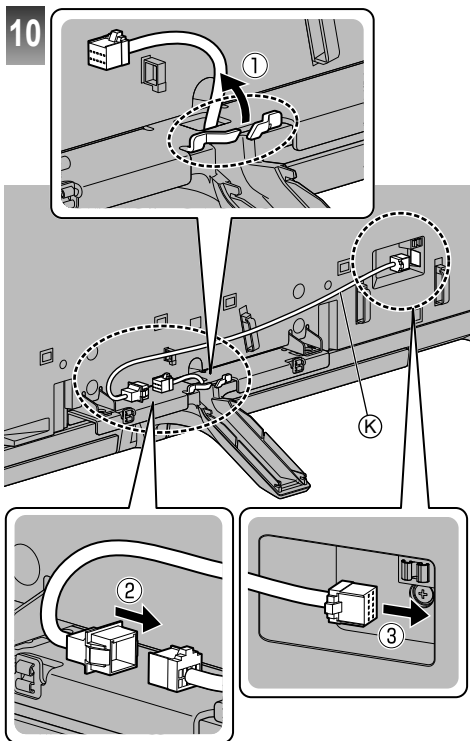


2

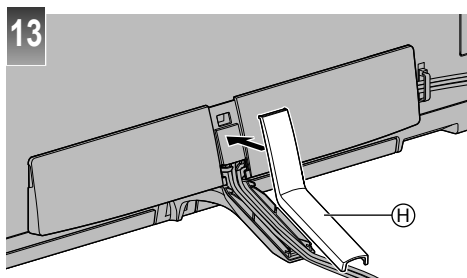
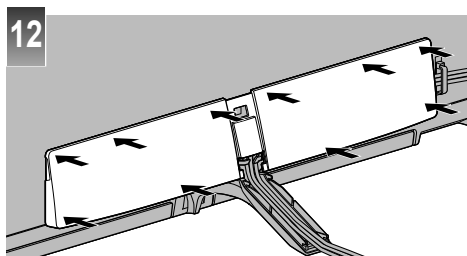
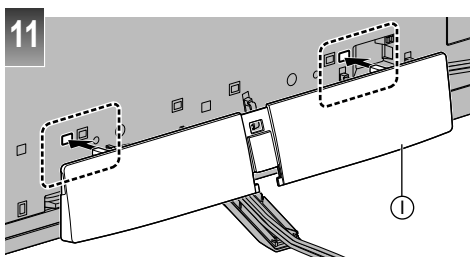
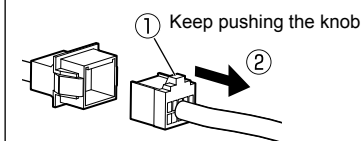








To disconnect the speaker and speaker cable

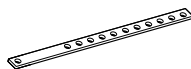


■ Preventing the TV from falling over

It is recommended to secure the pedestal to a furniture as shown to prevent the TV from falling over.

- This information is designed to reduce the risk of injuries caused by the TV falling over. However, no measure can guarantee protection in all cases.
- Remove the cover and cable cover (rear).

L Band

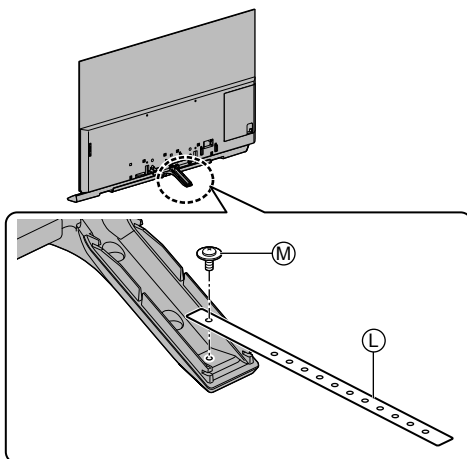


M Screw

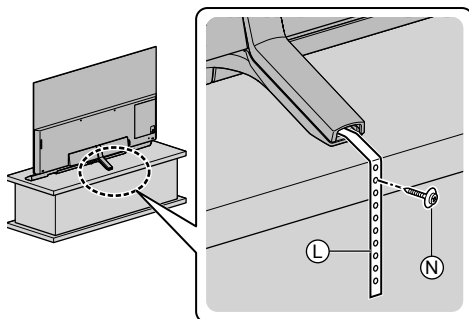


N Wood screw



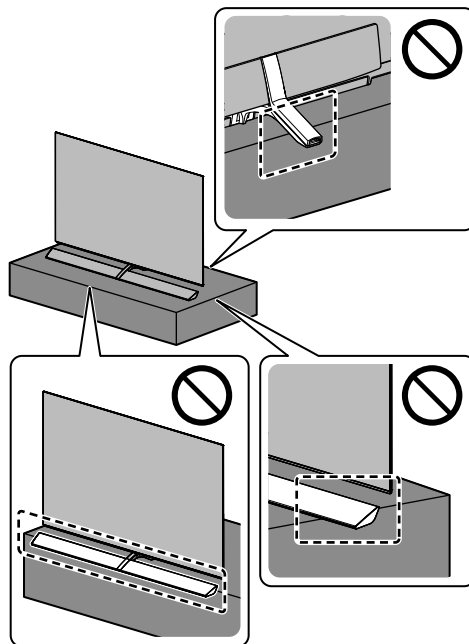


After attaching the fall-prevention band ① to the base, attach the cover and cable cover (rear).



Installing the TV and speaker

Ensure that the TV and speaker do not hang over the edge of the base.



Removing the pedestal

Be sure to remove the pedestal in the following procedures when you repack the TV.

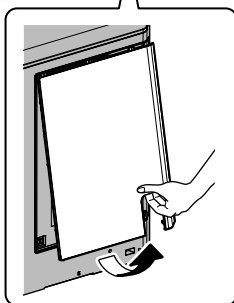
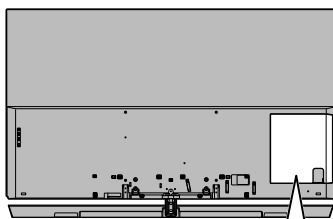
- 1 Remove the cable cover (rear) ⑩ from the pedestal.
- 2 Remove the cover ① from the pedestal.
- 3 Disconnect the speaker cable ⑧.
- 4 Remove the assembly screws ⑥ from the TV.
- 5 Lift the TV from the pedestal.
- 6 Remove the cable cover (front) ③ from the pedestal.
- 7 Remove the speaker cable ⑧ from the pedestal.
- 8 Remove the assembly screw ④ from the pedestal.
- 9 Remove the speaker from the pedestal.
- 10 Remove the assembly screws ② from the pedestal.

Connections

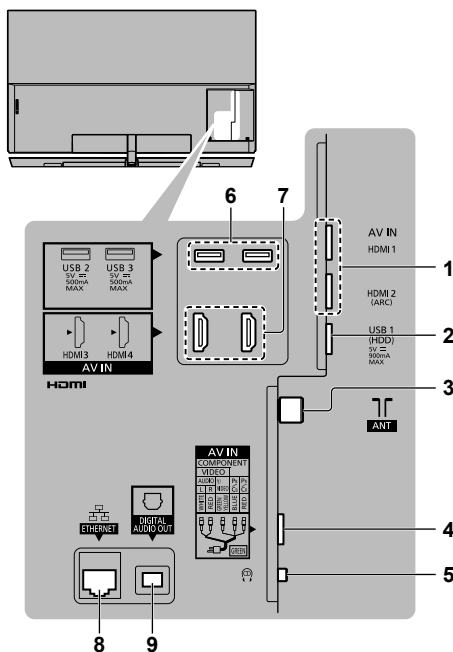
- External equipment and cables shown are not supplied with this TV.
- Please ensure that the unit is disconnected from the mains socket before attaching or disconnecting any cables.
- Check the terminal type and cable plugs are correct for connection.
- Use a fully wired HDMI compliant cable.
- Keep the TV away from electronic equipment (video equipment, etc.) or equipment with an infrared sensor, otherwise distortion of image / sound may occur or operation of other equipment may be affected.
- Please also read the manual of the equipment being connected.

Removing the terminal cover from the TV

- Be sure to remove the terminal cover before connecting or disconnecting cables.
- When the connections are completed, attach the terminal cover. ➔ (p. 17)



Terminals

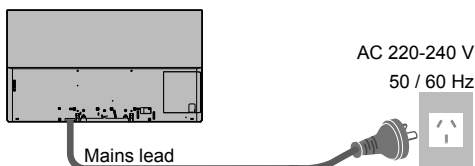


- 1 HDMI1 - 2 ➔ (p. 14, 15)
- 2 USB 1 port
- 3 Aerial terminal ➔ (p. 14)
- 4 AV IN (COMPONENT / VIDEO) ➔ (p. 15)
- 5 Headphone jack ➔ (p. 16)
- 6 USB 2 - 3 port
- 7 HDMI3 - 4
- 8 ETHERNET terminal ➔ (p. 14)
- 9 DIGITAL AUDIO OUT

- To connect the equipment to AV, the terminal adaptor (supplied) is necessary.
 - To watch content in 4K format, use HDMI terminal.
- ➔ (p. 15)

Basic connections

■ Mains lead

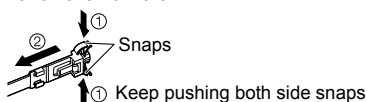


Cable tie (Bundled the mains lead)

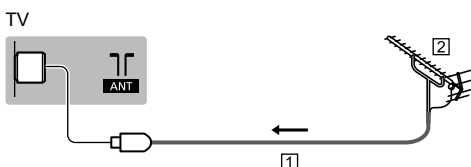
To loosen:



To remove from the TV:



■ Aerial



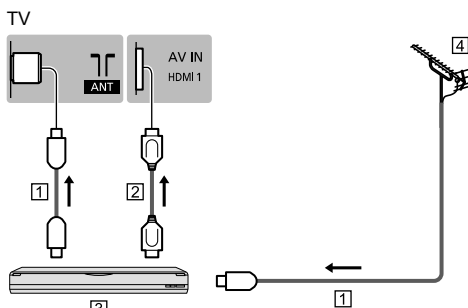
① RF cable

② Aerial

- For Digital TV, Analogue TV
- Keep RF (aerial) cable away from the mains lead to avoid and minimise mains interference pickup.
- Do not place the RF cable under the TV.
- An aerial, correct cable (75 Ω coaxial) and correct terminating plug are required to obtain optimum quality picture and sound.
- If a communal aerial system is used, you may require the correct connection cable and plug between the wall aerial socket and the TV.
- Your local Television Service Centre or dealer may be able to assist you in obtaining the correct aerial system for your particular area and the accessories required.
- Any matters regarding aerial installation, upgrading of existing systems or accessories required, and the costs incurred, are the responsibility of you, the customer.

AV devices

■ DVD Recorder / Blu-ray Recorder, etc.



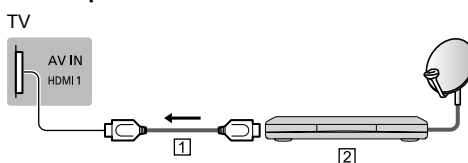
① RF cable

② HDMI cable

③ DVD Recorder / Blu-ray Recorder, etc.

④ Aerial

■ Set top box



① HDMI cable

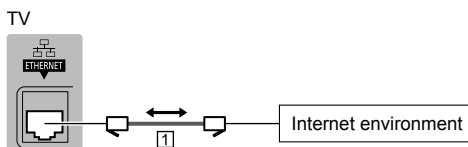
② Set top box

Network

A broadband network environment is required to be able to use internet services.

- If you do not have any broadband network services, please consult your retailer for assistance.
- Prepare the internet environment for wired connection or wireless connection.
- Setup of the network connection will start when first using the TV. ➔ (p. 21)

■ Wired connection



① LAN cable (Shielded)

- Use Shielded Twist Pair (STP) LAN cable.

■ Wireless connection

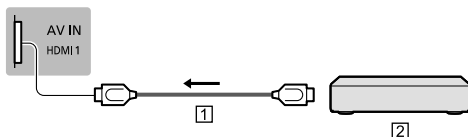


1 Built-in wireless LAN

2 Access point

Connections for 4K compatible equipment

TV



1 HDMI cable

2 4K compatible equipment

- To watch high-definition 4K more accurately or HDR content, connect the 4K compatible equipment to HDMI1 or 2 terminal.
- Connect the 4K compatible equipment to HDMI terminal using a 4K compatible cable and you can watch content in 4K format.

■ [HDMI Auto Setting] (Setup Menu)

Reproduces the image more precisely with the expanded colour gamut when connecting the 4K compatible equipment. Select the mode depending on the equipment.

[Mode1]:

For better compatibility. Set to [Mode1] when the image or sound in HDMI input is not played properly.

[Mode2]:

For the 4K compatible equipment that has the function to output the image precisely with the expanded colour gamut

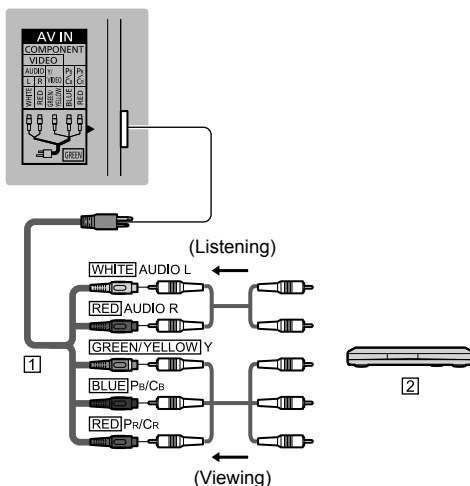
- To change the mode
 - Select the HDMI input mode connected to the equipment.
 - Display the menu and select [HDMI Auto Setting] (Setup Menu).
- For information about the valid format, refer to [eHELP] (Search by Purpose > Watching > 4K resolution > HDMI Auto Setting).

Other connections

■ DVD Player

(COMPONENT equipment)

TV



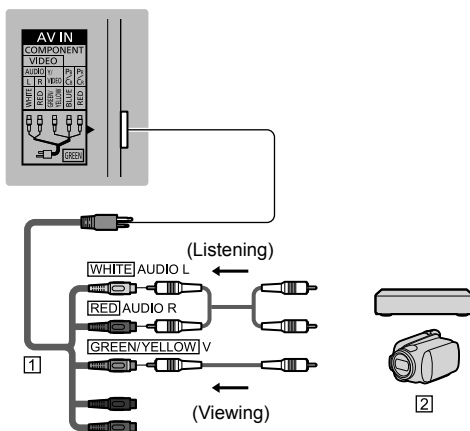
1 AV2 (COMPONENT / VIDEO) adaptor (supplied)

2 DVD Player

■ Camcorder / Game equipment

(VIDEO equipment)

TV



1 AV2 (COMPONENT / VIDEO) adaptor (supplied)

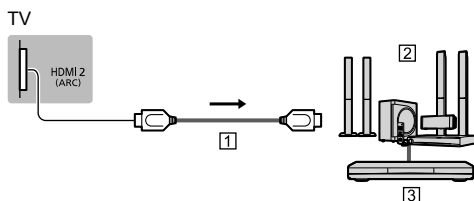
2 Camcorder / Game equipment

■ Amplifier (listening with external speakers)

- Use HDMI2 to connect the TV to an amplifier which has ARC (Audio Return Channel) function.

If connecting to an amplifier without ARC function, use DIGITAL AUDIO OUT.

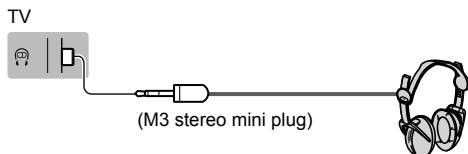
- To enjoy multi-channel sound from external equipment (e.g. Dolby Digital 5.1ch), connect the equipment to the amplifier. For information about the connections, read the manuals of the equipment and amplifier.



- ① HDMI cable
- ② Amplifier with speaker system
- ③ External equipment (DVD Player, etc.)

■ Headphones

- For information about the volume settings, refer to [eHELP] (Search by Purpose > Settings > Sound).



■ USB HDD (for recording)

- Use USB 1 port for connecting the USB HDD.
- For details, refer to [eHELP] (Search by Purpose > Recording).

■ VIERA Link

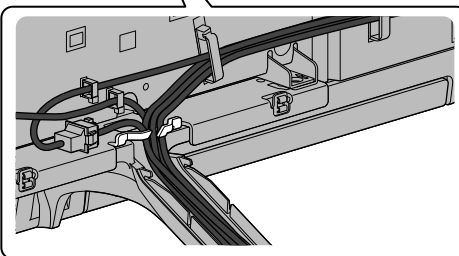
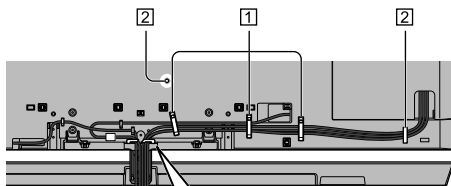
- Use HDMI1 - 4 for VIERA Link connection.
- For details, refer to [eHELP] (Search by Purpose > Functions > VIERA Link "HDAVI Control™").

Cable arrangement

Before fixing the cables, remove the cover and cable cover (rear).

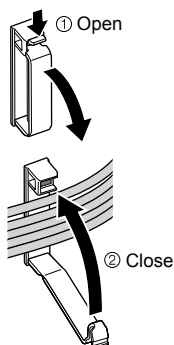
Fix the cables using the cable clamp and cable tie, and then attach the terminal cover to the TV.

■ Fixing the cables using the cable tie and cable guide



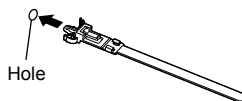
- ① Cable guide
- ② Cable tie

Cable guide

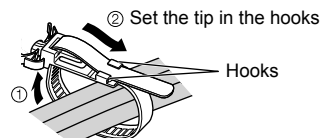


Attach the cable tie

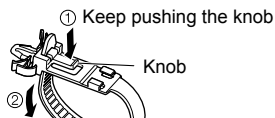
Insert the cable tie in a hole



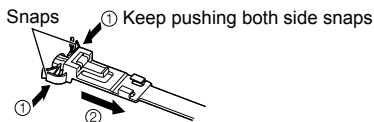
Bundle the cables



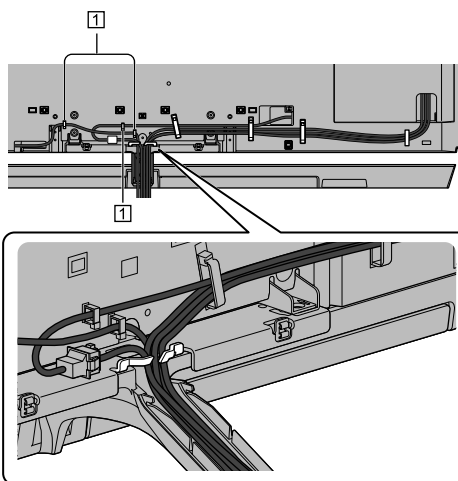
To loosen:



To remove from the TV:

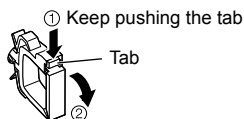


■ Fixing the cables using the cable clamp

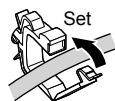


① Cable clamp

To release:



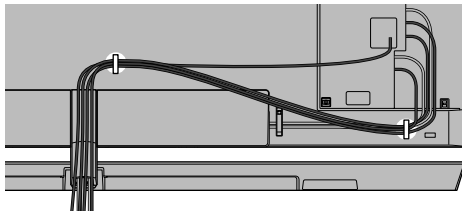
Bundle the cable



- Fix cables as necessary.
- When using the optional accessory, follow the option's assembly manual to fix cables.

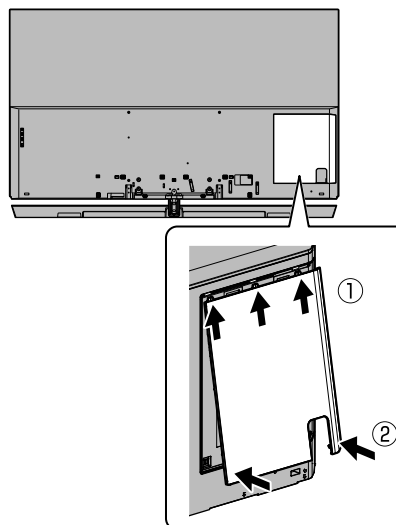
- If all cables cannot pass the cable guide, fix the cables using the cable tie as follows.

<Example>



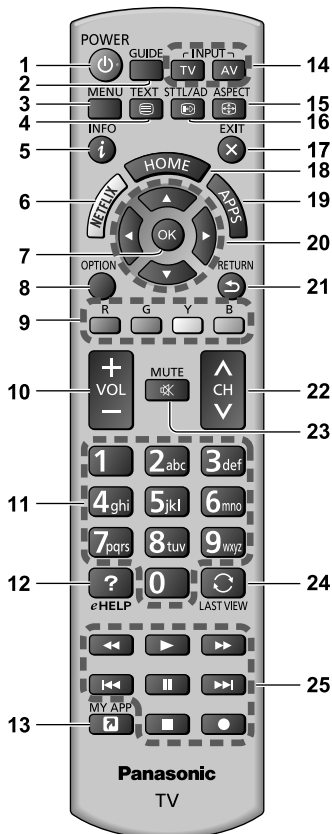
■ Attaching the terminal cover

- Do not apply load to the terminal cover.
- Be careful not to nip the cables between the TV and the terminal cover.
- When using USB 2 port, USB 3 port, ETHERNET terminal, DIGITAL AUDIO, HDMI3 terminal or HDMI4 terminal, you cannot attach the terminal cover. Keep the removed terminal cover for future use.



Identifying Controls

Remote Control



1 **[Power]**: Standby On / Off switch

2 **TV Guide**

3 **[Main Menu]**

- Press to access Picture, Sound, Network, Timer, Setup and Help Menus, etc.

4 **Teletext button**

- This button is not used for this model. Australia
- Switches to teletext mode. New Zealand

5 **Information**

- Displays channel and programme information.

6 **Netflix**

- Accesses NETFLIX service directly.
- A broadband network environment is required in order to fully use this function.
- This service may be stopped or changed without notice.

7 **OK**

- Confirms selections and choices.
- Press after selecting channel positions to quickly change channel.
- Displays channel list.

8 **[Option Menu]**

- Easy optional setting for viewing, sound, etc.

9 **Coloured buttons**

(red-green-yellow-blue)

- Used for the selection, navigation and operation of various functions.

10 **Volume Up / Down**

11 **Numeric buttons**

- Changes channel. Australia
- Changes channel and teletext pages. New Zealand
- Sets characters.
- When in Standby mode, switches TV on.

12 **[eHELP]**

- Displays [eHELP] (Built-in Operating Instructions).

13 **[My App]**

- Assigns a favourite application. After setting, starts the application easily by pressing this button.
- For details, refer to [eHELP] (Search by Purpose > Home Screen > Apps > My App)

14 **Input mode selection**

- TV - switches to Digital TV / Analogue TV.
- AV - switches to AV input mode from Input Selection list.

15 **Aspect**

- Changes aspect ratio.

16 **Subtitle / Audio Description**

- Displays [Audio Description / Subtitle Menu].

17 **Exit**

- Returns to the normal viewing screen.

18 **HOME**

- Displays [Home Screen].
- For details, refer to [eHELP] (Search by Purpose > Read first > Features).

19 **APPS**

- Displays [Apps] (applications list).

20 **Cursor buttons**

- Makes selections and adjustments.

21 **Return**

- Returns to the previous menu / page.

22 **Channel Up / Down**

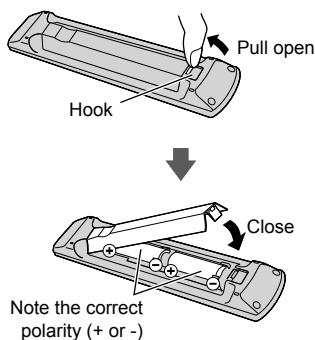
23 **Sound Mute On / Off**

24 **Last view**

- Switches to previously viewed channel or input mode.

25 **Operations for contents, connected equipment, etc.**

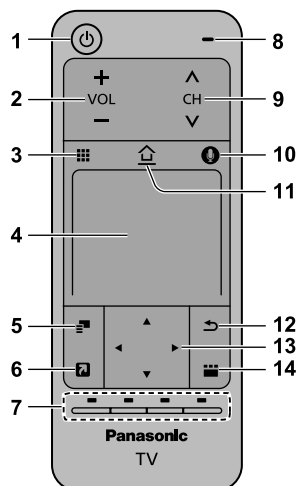
■ Installing / Removing batteries



Touch Pad Controller

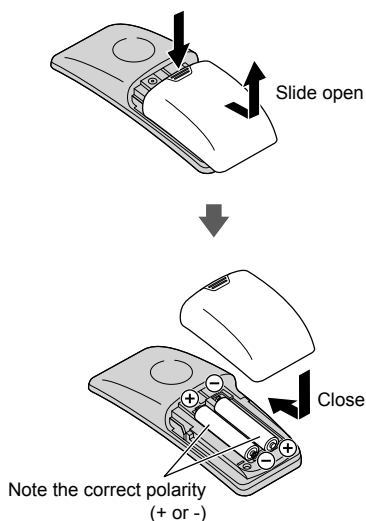
The Touch Pad Controller is designed for convenient and intuitive operation, especially with [Home Screen] or internet content.

- Touch Pad Controller can be used exclusively for controlling this TV.
- Register the Touch Pad Controller to this TV with Bluetooth wireless technology before using.
The registration starts automatically when you press any buttons (except Standby On / Off switch) after installing batteries.
- After registering, you can operate the TV without pointing this controller at the TV (except Standby On / Off switch).
- To use Standby On / Off switch, point the controller directly at the TV's remote control signal receiver because it works with the infrared sensors. (You can operate the switch without registration.)
- It is recommended to speak within approx. 15 cm from the microphone of Touch Pad Controller when using the Voice Control function.
- For details, refer to [eHELP] (Search by Purpose > Functions > Touch Pad Controller).



- 1 [⏻]: Standby On / Off switch**
- 2 Volume Up / Down**
- 3 On-screen remote control**
 - Press to display the remote control GUI (Graphical User Interface).
- 4 Touch pad**
 - For information about the operation, refer to [Operation Guide] in [VIERA Touch Pad Controller] (Setup Menu).
- 5 [Option Menu]**
- 6 [My App]**
 - Assigns a favourite application. After setting, starts the application easily by pressing this button.
 - For details, refer to [eHELP] (Search by Purpose > Home Screen > Apps > My App)
- 7 Coloured buttons (red-green-yellow-blue)**
 - Used for the selection, navigation and operation of various functions.
- 8 Microphone**
- 9 Channel Up / Down**
- 10 Voice Control button**
 - Press to use Voice Control function.
- 11 HOME**
 - Displays [Home Screen].
 - For details, refer to [eHELP] (Search by Purpose > Read first > Features).
- 12 Return**
 - Returns to the previous menu / page.
- 13 Cursor buttons**
 - Makes selections and adjustments.
- 14 APPS**
 - Displays [Apps] (applications list).

■ Installing / Removing batteries

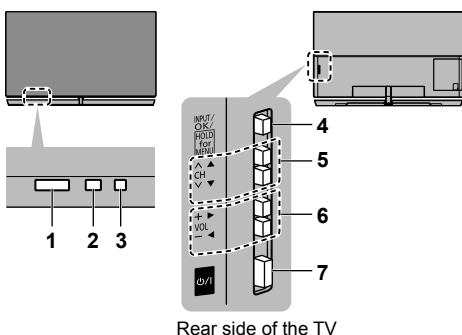


Note

- It is recommended to hold Touch Pad Controller with your hand when using.
- The battery power will be used whenever you use Touch Pad Controller (including the touch of the touch pad) even if not operating the TV. It may decrease the battery life.
- Some operations differ depending on the application.

Indicator / Control panel

- When pressing 4, 5, 6 buttons, the control panel guide appears on the right side of the screen for 3 seconds to highlight which button has been pressed.



1 Remote control signal receiver

- Do not place any objects between the TV remote control signal receiver and remote control.

2 Ambient sensor

- Senses brightness to adjust picture quality when [Ambient Sensor] in the Picture Menu is set to [On].

3 Power LED

Red: Standby

Green: On

Orange: Standby with some functions (recording, etc.) active or panel maintenance in progress

- The LED blinks when the TV receives a command from the remote control.

4 Input mode selection

- Press repeatedly until you reach the desired mode.

[Main Menu]

- Press and hold for about 3 seconds to display main menu.

OK (when in the menu system)

5 Channel Up / Down

- Cursor Up / Down (when in the menu system)

6 Volume Up / Down

- Cursor Left / Right (when in the menu system)

7 Mains power On / Off switch

- Use to switch the mains power.
- To turn Off the apparatus completely, you must pull the mains plug out of the mains socket.
- [⏻/⏻]: Standby / On

Panel maintenance

Be sure to turn the TV off with the remote control to perform the panel maintenance. During the panel maintenance, LED turns to orange.

During panel maintenance, avoid touching and exerting any pressure on the screen. (e.g. wiping the screen, etc.)

There are two types of the maintenance as following.

① Normal maintenance automatically starts, and it takes approx. 10 minutes.

② Regular maintenance takes approx. 80 minutes.

- When regular maintenance is necessary, the message appears on the screen after turning the TV off with the remote control. Follow the on-screen instructions.
- During the panel maintenance, a white horizontal line appears on the screen for a while. This is not a malfunction.
- For information about panel maintenance, refer to [eHELP] (Search by Purpose > Watching > For best picture > Screen Settings)

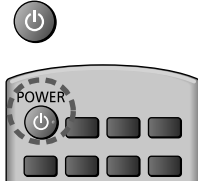
First time Auto Tuning

When the TV is turned on for the first time, it will automatically search for available TV channels and give options to set up the TV.

- These steps are not necessary if the setup has been completed by your local dealer.
- Please complete connections (p. 13 - 17) and settings (if necessary) of the connected equipment before starting Auto Tuning. For information about the settings for the connected equipment, read the manual of the equipment.

1 Plug the TV into a live mains socket and turn the power on

POWER • Takes a few seconds to be displayed.



2 Select the following items

Set up each item by following the on-screen instructions.

Example:



■ How to use the remote control



Move the cursor



Access the item / store the setting



Return to the previous item (if available)

Select the language

When the speaker is not connected to the TV, [Speaker Connection Check] screen appears

- Ensure the speaker connection is completed (p. 11) and press the OK button.
- When the speaker is not connected to the TV, turn the TV off with the remote control and connect the speaker at first. (p. 11)

Select [Home]

Select [Home] for use in a home viewing environment.

- [Shop] is for shop display.

- To change the viewing environment later on, the set will need to have all settings initialised by accessing Shipping Condition.

Set up the network connection

Select your country

Select your area **Australia**

Tick the TV signal mode to tune, and then select [Start Auto Tuning]

- ☒ : tune (search for the available channels)
☐ : skip tuning

Auto Tuning is now complete and the TV is ready for viewing.

If tuning has failed check the Satellite cable, RF cable, and the network connection, and then follow the on-screen instructions.

Note

- The TV goes into Standby mode when no operation is performed for 4 hours if [Auto Standby] in the Timer Menu is set to [On].
- The TV goes into Standby mode when no signal is received and no operation is performed for 10 minutes if [No signal Power off] in the Timer Menu is set to [On].
- To retune all channels
➔ **[Auto Tuning] in [Tuning Menu] (Setup Menu)**
- To add the available TV signal mode later
➔ **[Add TV Signal] in [Tuning Menu] (Setup Menu)**
- To initialise all settings
➔ **[Shipping Condition] in [System Menu] (Setup Menu)**

Watching TV

1 Turn power on

⏻ (TV)

or
POWER



(Remote Control)

- Mains power On / Off switch should be on. (p. 20)

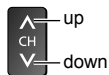
Displays information bar on the edge of screen for several seconds.

- For information about the operation and settings, refer to [eHELP]. (Search by Purpose > Read first > Features)

2 Select Digital TV or Analogue TV

TV

3 Select a channel



or



- To select a channel position with 2 or more-digit, e.g. 399



How to Use eHELP

[eHELP] is the detailed operating instructions built into the TV, and gives a more detailed explanation for a better understanding of the operation of each feature.

1 Display [eHELP]



eHELP

or

MENU



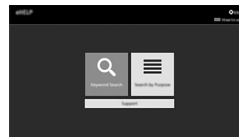
[Help]



[eHELP]

- If the [eHELP] has been accessed previously since the TV was turned on, the confirmation screen is displayed to select whether to go to the [First page] or to the [Last viewed page].

2 Select the menu



① select

② access

- To access [How to use]

G



(green)

[Keyword Search]:

Search the content of eHELP in the keyword.

[Search by Purpose]:

Search the content of eHELP for each item.

[Support]:

Access the support information (FAQs, etc.).

3 Select the item

Example:



① select

② access


- To return to the previous screen / field

RETURN



- To scroll the description (if more than 1 page)
While the description is highlighted



- To open the reference screen ( →)



- To display the menu related to the description (only for some descriptions)



- To check the features of this TV
Search by Purpose > Read first > Features

FAQs

Before requesting service or assistance, please follow these simple guides to solve the problem.

- For details, refer to [eHELP] (Support > FAQs).

It takes several seconds to display the image after turning the TV on

- When turning the TV on, the panel adjustment is performed. It is not a malfunction.

The TV does not switch on

- Check the mains lead is plugged into the TV and the mains socket.

The TV goes into Standby mode

- Auto power standby function is activated.

The remote control does not work or is intermittent

- Are the batteries installed correctly? ➔ (p. 19)
- Has the TV been switched on?
- The batteries may be running low. Replace them with new ones.
- Point the remote control directly at the TV's remote control signal receiver (within about 7 m and a 30 degree angle of the signal receiver).
- Situate the TV away from sunshine or other sources of bright light so they do not shine on the TV's remote control signal receiver.

No image is displayed

- Check the TV is turned on.
- Check the mains lead is plugged into the TV and the mains socket.
- Check the correct input mode is selected.
- Check the setting of [AV] ([COMPONENT] / [VIDEO]) in [Input Selection] to match the signal being output by the external equipment.
- Is [Backlight], [Contrast], [Brightness] or [Colour] in the Picture Menu set to the minimum?
- Check all required cables and connections are firmly in place.

An unusual image is displayed

- This TV has a built-in Self Test. Makes a diagnosis of picture or sound problems.
➔ [TV Self Test] (Help Menu)
- Turn the TV off with Mains power On / Off switch, then turn it on again.
- If the problem persists, initialise all settings.
➔ [Shipping Condition] in [System Menu] (Setup Menu)

The image or sound from external equipment are unusual when the equipment is connected via HDMI

- Set [HDMI Auto Setting] (Setup Menu) to [Mode1]
➔ (p. 15)

Parts of the TV become hot

- Parts of the TV may become hot. These temperature rises do not pose any problems in terms of performance or quality.

When pushed with a finger, the display panel moves slightly and makes a noise

- There is a little gap around the panel to prevent damage to the panel. This is not a malfunction.

LED turns to orange

- Panel maintenance may be in progress.
LED turns to orange again in standby mode when the TV is turned on / off before the panel maintenance is completed.
(Be sure to turn the TV off with the remote control to perform panel maintenance.)
- During panel maintenance, avoid touching and exerting any pressure on the screen. (e.g. wiping the screen, etc.)
- For more information
➔ "Panel maintenance" (p. 20)

A white horizontal line appears in Standby mode.

- A white horizontal line may appear on the screen for a while to adjust the panel. This is not a malfunction.

Maintenance

First, remove the mains plug from the mains socket.

Display panel, Cabinet, Pedestal

Regular care:

Gently wipe the surface of the display panel, cabinet, or pedestal by using a soft cloth to remove dirt or fingerprints.

For stubborn dirt:

- (1) First clean the dust from the surface.
- (2) Dampen a soft cloth with clean water or diluted neutral detergent (1 part detergent to 100 parts water).
- (3) Wring out the cloth firmly. (Please note, do not let liquid enter the TV inside as it may lead to product failure.)
- (4) Carefully wipe moisten and wipe away the stubborn dirt.
- (5) Finally, wipe away all the moisture.

Caution

- Do not use a hard cloth or rub the surface too hard, otherwise this may cause scratches on the surface.
- Take care not to subject the surfaces to insect repellent, solvent, thinner or other volatile substances. This may degrade surface quality or cause peeling of the paint.
- The surface of the display panel is specially treated and may be easily damaged. Take care not to tap or scratch the surface with your fingernail or other hard objects.
- Do not allow the cabinet and pedestal to make contact with a rubber or PVC substance for a long time. This may degrade surface quality.

Speaker

Clean the speaker with a soft, dry cloth.

Caution

- When cleaning the speaker, use a fine cloth. Do not use tissues or other materials (towels, etc.) that can fall apart. Small grains may get stuck inside the speaker cover.
- Do not wipe the speaker net with a wet cloth.
- Never use alcohol, paint thinner or benzine to clean the speaker.
- Before using chemically-treated cloth, carefully read the instructions that came with the cloth.

Mains plug

Wipe the mains plug with a dry cloth at regular intervals. Moisture and dust may cause fire or electrical shock.

Specifications

■ TV

Model No.

65-inch model : TH-65EZ1000U

77-inch model : TH-77EZ1000U

Dimensions (W × H × D)

65-inch model

1 452 mm × 918 mm × 330 mm
(With Pedestal and speaker)

1 452 mm × 904 mm × 90 mm
(With speaker (using "ACCESSORIES FOR SPEAKER WALL-HANGING"))

1 452 mm × 837 mm × 42 mm (TV only)

77-inch model

1 723 mm × 1 091 mm × 373 mm
(With Pedestal and speaker)

1 723 mm × 1 064 mm × 90 mm
(With speaker (using "ACCESSORIES FOR SPEAKER WALL-HANGING"))

1 723 mm × 998 mm × 52 mm (TV only)

Mass

65-inch model

27.0 kg Net (With Pedestal and speaker)

20.5 kg Net (TV only)

2.5 kg Net (Speaker only)

77-inch model

44.0 kg Net (With Pedestal and speaker)

35.0 kg Net (TV only)

3.0 kg Net (Speaker only)

Power Rating

65-inch model

AC 220-240 V, 50 / 60 Hz 2.28 A

77-inch model

AC 220-240 V, 50 / 60 Hz 3.34 A

Normal (Home) mode

65-inch model

180 W

77-inch model

245 W

Standby power consumption

0.50 W

Visible screen size (diagonal)

65-inch model

164 cm

77-inch model

195 cm

Display resolution

3 840 (W) × 2 160 (H)

Panel

OLED panel

Sound

Speaker output

80 W (20 W × 2 + 20 W × 2)

Headphones

M3 (3.5 mm) stereo mini Jack × 1

Connection terminals

AV IN (COMPONENT / VIDEO)

VIDEO

RCA PIN Type × 1

1.0 V[p-p] (75 Ω)

AUDIO L - R

RCA PIN Type × 2

0.5 V[rms]

Y

1.0 V[p-p] (including synchronisation)

Pb/Cb, Pr/Cr

±0.35 V[p-p]

HDMI 1 / 2 / 3 / 4 input

TYPE A Connectors

HDMI1 / 3 / 4: 4K, Content Type, Deep Colour, x.v.Colour™

HDMI2: 4K, Content Type, Audio Return Channel, Deep Colour, x.v.Colour™

- This TV supports "HDAVI Control 5" function.

ETHERNET

10BASE-T / 100BASE-TX

USB 1 / 2 / 3

USB1: DC ⎓ 5 V, Max. 900 mA [SuperSpeed USB (USB 3.0)]

USB2 / 3: DC ⎓ 5 V, Max. 500 mA [Hi-Speed USB (USB 2.0)]

DIGITAL AUDIO OUT

PCM / Dolby Digital, Fibre optic

Receiving systems / Band name

Digital TV

Australia

7 MHz VHF / UHF (Australia) free-to-air TV broadcast reception

New Zealand

8 MHz VHF / UHF (New Zealand) free-to-air TV broadcast reception

PAL B / G

Reception of Off air broadcast

PAL 60 Hz

Playback of NTSC tape from some PAL Video recorders (VCR)

M. NTSC

Playback from M. NTSC Video recorders (VCR)

NTSC

Playback from NTSC Video recorders (VCR)

Aerial input

Standard Belling & Lee connector

VHF / UHF

Operating conditions

Temperature

0 °C - 35 °C

Humidity

20 % - 80 % RH (non-condensing)

Built-in wireless LAN

Standard compliance and Frequency range*1

IEEE802.11a/n

5.15 GHz - 5.35 GHz, 5.47 GHz - 5.85 GHz

IEEE802.11b/g/n

2.400 GHz - 2.4835 GHz

Security

WPA2-PSK (TKIP/AES)

WPA-PSK (TKIP/AES)

WEP (64 bit/128 bit)

Bluetooth wireless technology*2

Standard Compliance

Bluetooth 3.0

Frequency Range

2.402 GHz - 2.480 GHz

*1: The frequency and channel differ depending on the country.

*2: Not all the Bluetooth compatible devices are available with this TV. Up to 5 devices can be used simultaneously (except Touch Pad Controller).

Note

- Touch Pad Controller uses Bluetooth wireless technology.
- Design and Specifications are subject to change without notice. Mass and Dimensions shown are approximate.
- For information about the open source software, refer to [eHELP] (Search by Purpose > Read first > Before use > Licence).

When using the wall-hanging bracket

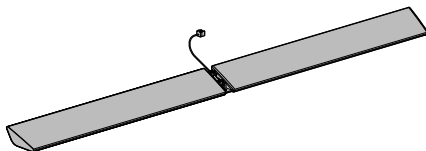
Professional installation is required. The installation should never be done by any other than a qualified installation specialist.

Incorrect fitting may cause equipment to fall, resulting in injury and product damage. Any such damage will void your warranty.

Accessories (wall-hanging parts)

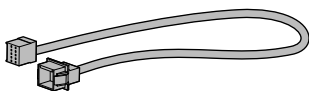
■ Speaker

Ⓐ Speaker



- Attach the speaker after hanging the TV on the wall.

Ⓑ Speaker cable



■ Accessories for pedestal

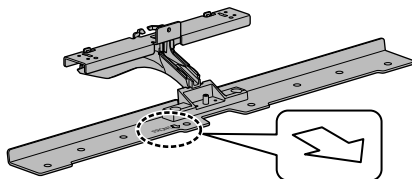
The pedestal is used in step 1 to 7 to attach the speaker bracket ① and connect the speaker cable into the TV.

Ⓒ Assembly screw (4)

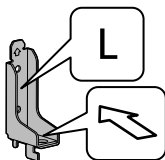


M5 × 10 (mm)

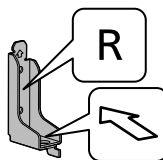
Ⓓ Base



Ⓔ Bracket (L)



Ⓕ Bracket (R)



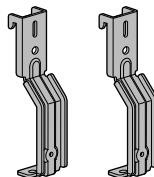
■ ACCESSORIES FOR SPEAKER WALL-HANGING

Ⓖ Assembly screw (8)

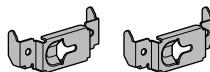


M4 × 12 (mm)

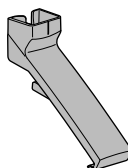
Ⓗ Speaker bracket ① (2)



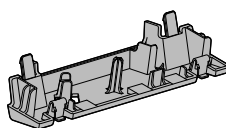
① Speaker bracket ② (2)



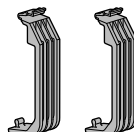
Ⓙ Cable cover ①



Ⓚ Cable cover ②

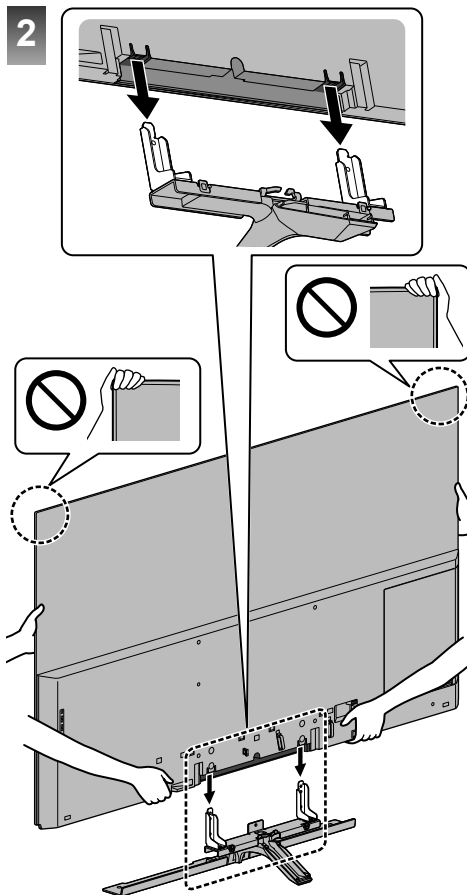
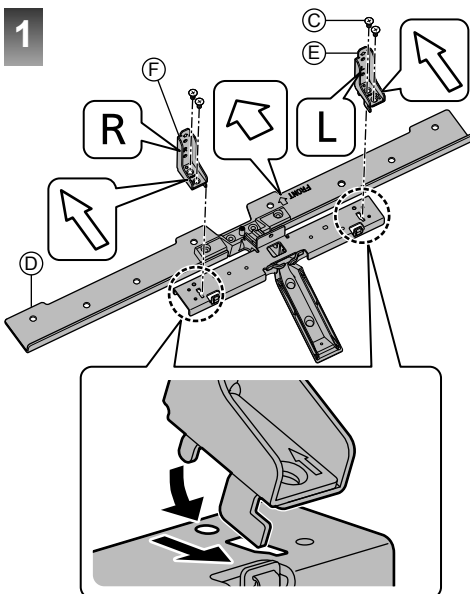


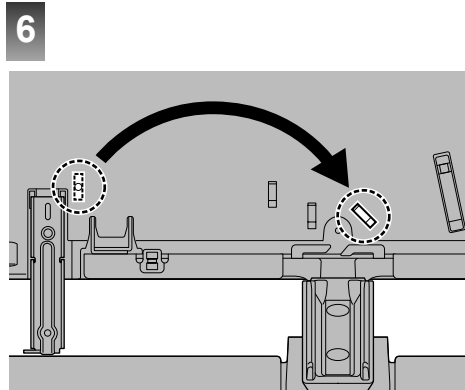
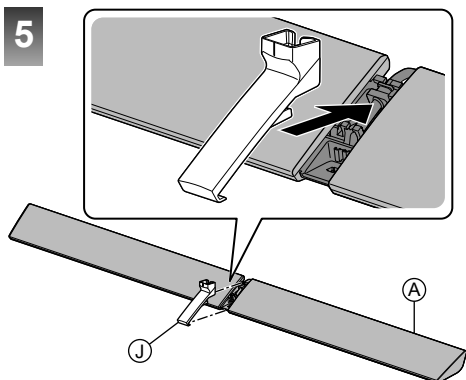
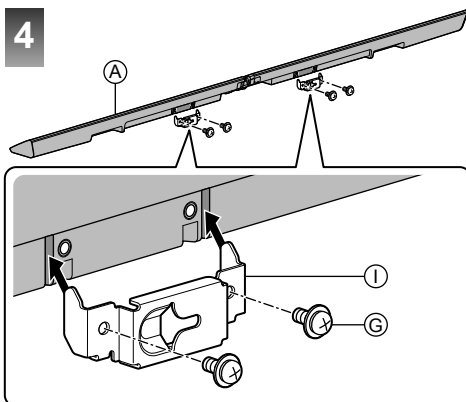
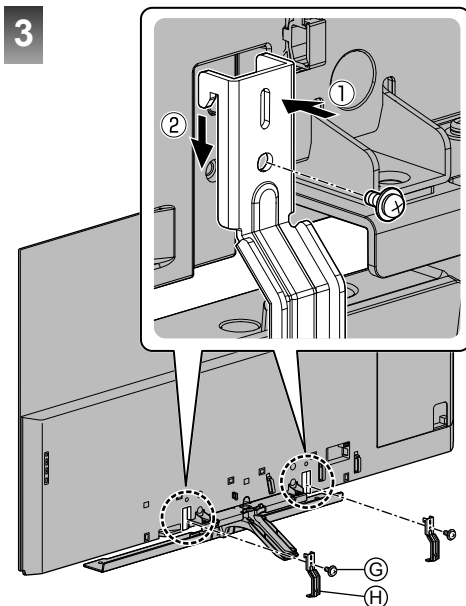
Ⓛ Speaker holder (2)



Assembling procedure

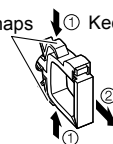
- Please note the procedure to attach the speaker after hanging the TV on the wall. You cannot attach the speaker before hanging the TV.





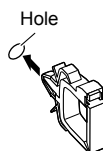
To remove from the TV:

Snap ① Keep pushing both side snaps



To attach the cable clamp:

Insert the cable clamp in a hole

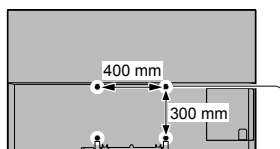


7

Installing the wall-hanging bracket

Choosing to wall mount the TV shall be done at the owner's risk. Always use a qualified installer to perform a TV wall bracket installation. Incorrect fitting may cause equipment to fall, resulting in injury and product damage. Any such damage will void your warranty.

- Holes for wall-hanging bracket installation
Rear of the TV



(View from the side)

Depth of screw
 65-inch model
minimum: 12 mm
maximum: 17 mm

77-inch model
minimum: 13 mm
maximum: 17 mm

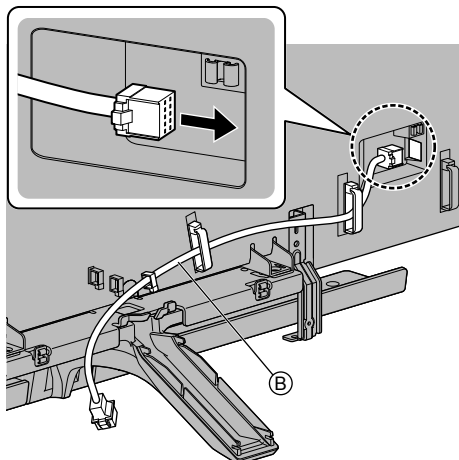
Type of screw: M6

Screw for fixing the TV onto the wall-hanging bracket (not supplied with the TV)

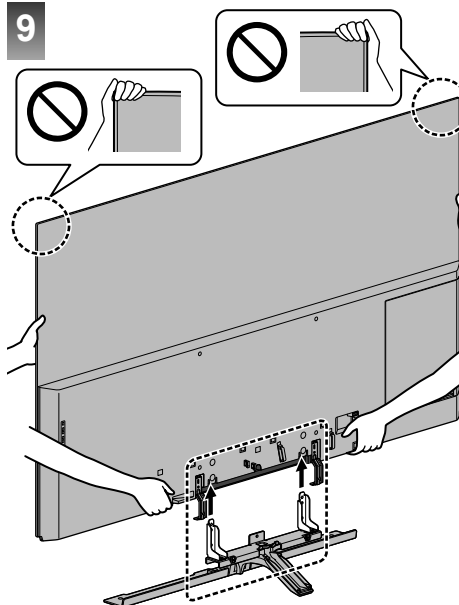
Warning

- When optional accessories such as wall brackets, etc. are used, always read and follow the manufactures installation and usage instructions.
- Do not mount the unit directly below ceiling lights (such as spotlights or halogen lights) which typically give off high heat. Doing so may warp or damage plastic cabinet parts.
- When installing wall brackets you must ensure the wall bracket is not electrically grounded to metal wall studs. Always ensure that there are no electrical cables, pipes, etc. in the wall before you begin the wall bracket installation.

8



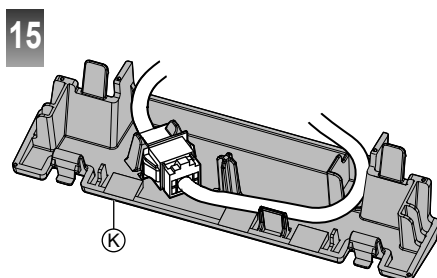
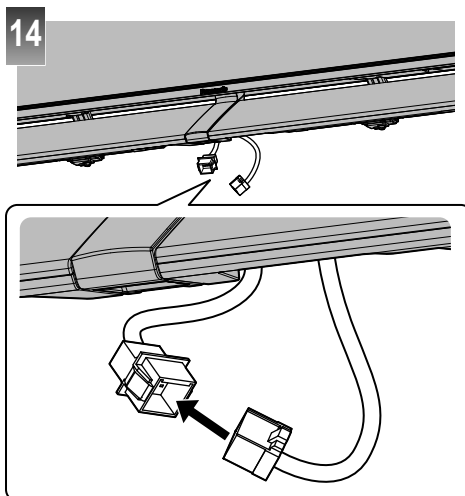
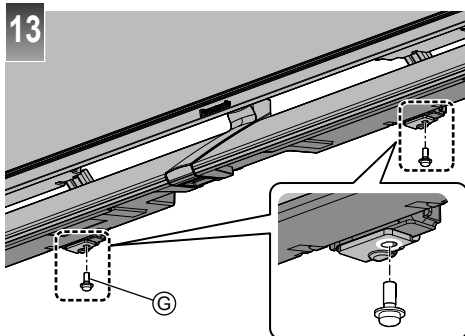
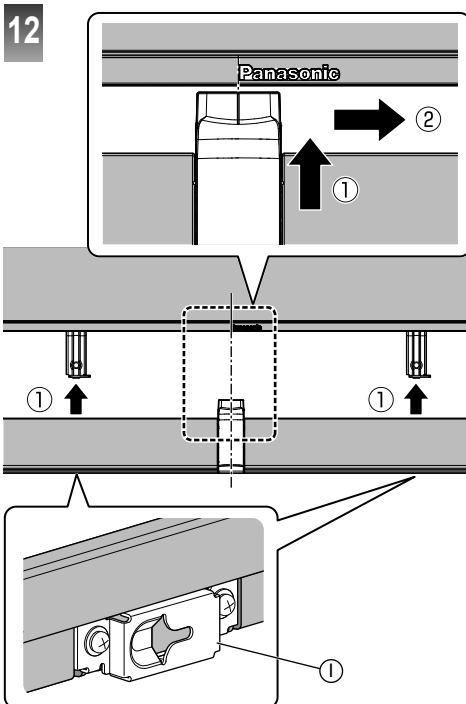
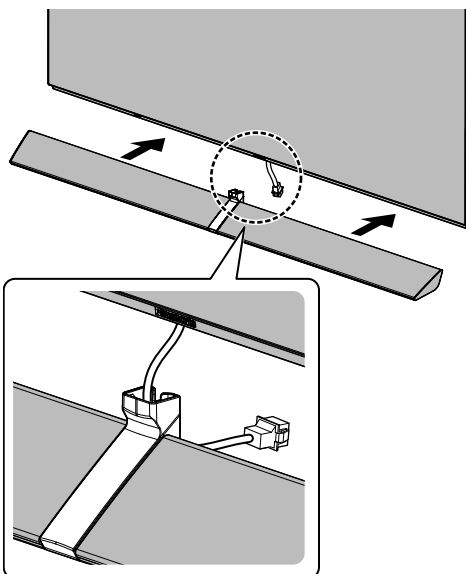
9

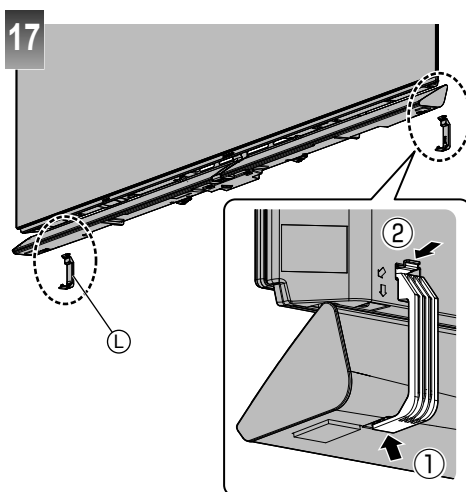
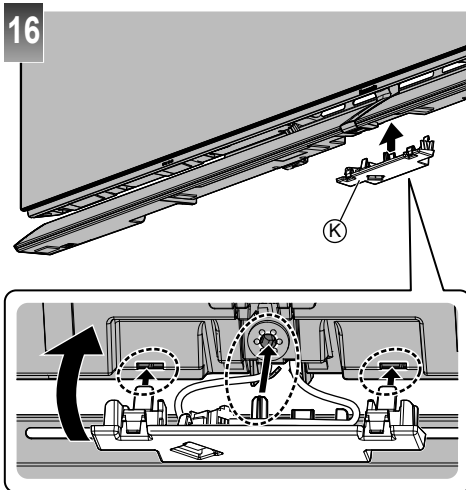


10

Hang the TV on the wall

11 Attach the speaker





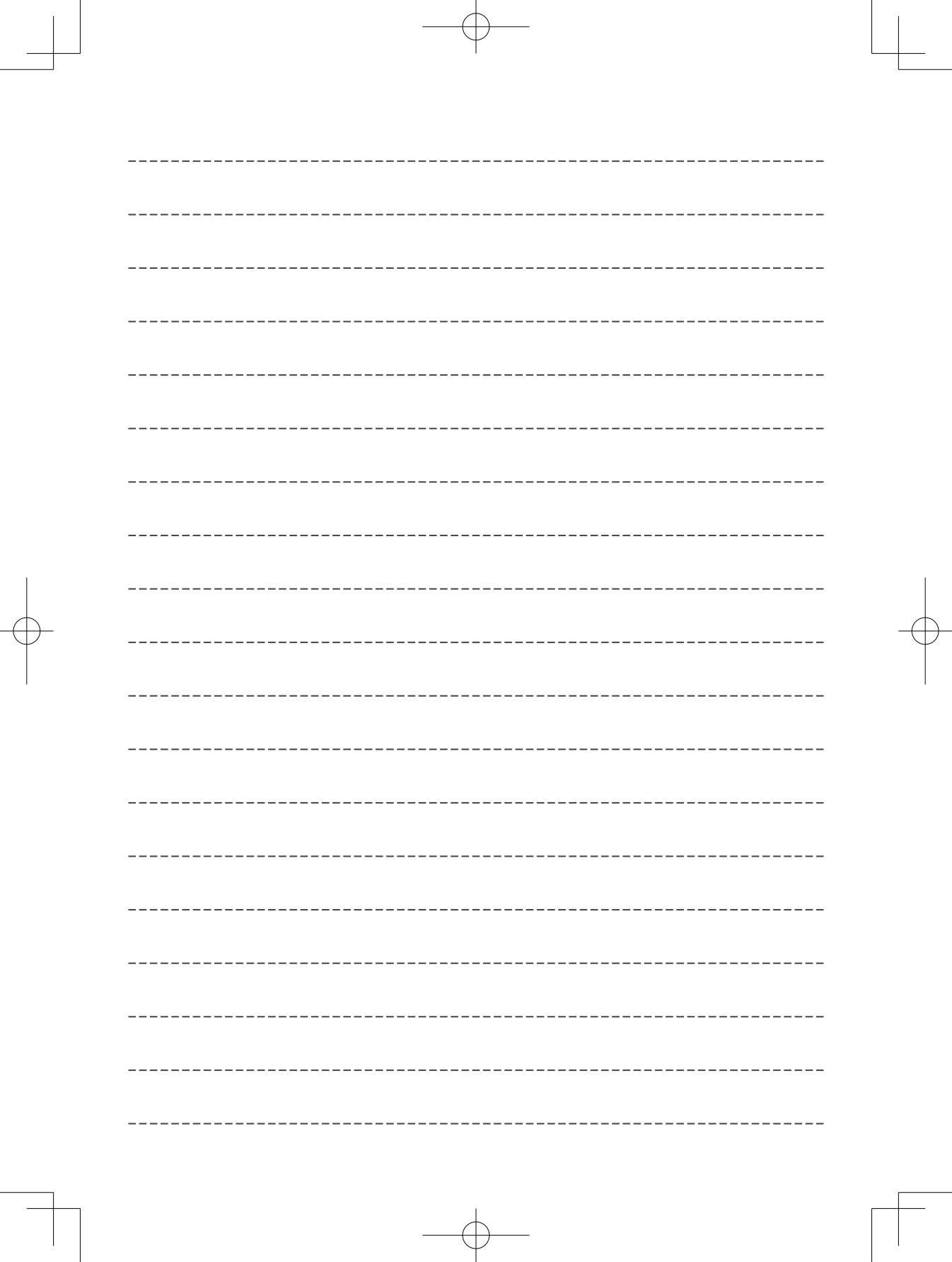
■ Removing the wall-hanging bracket

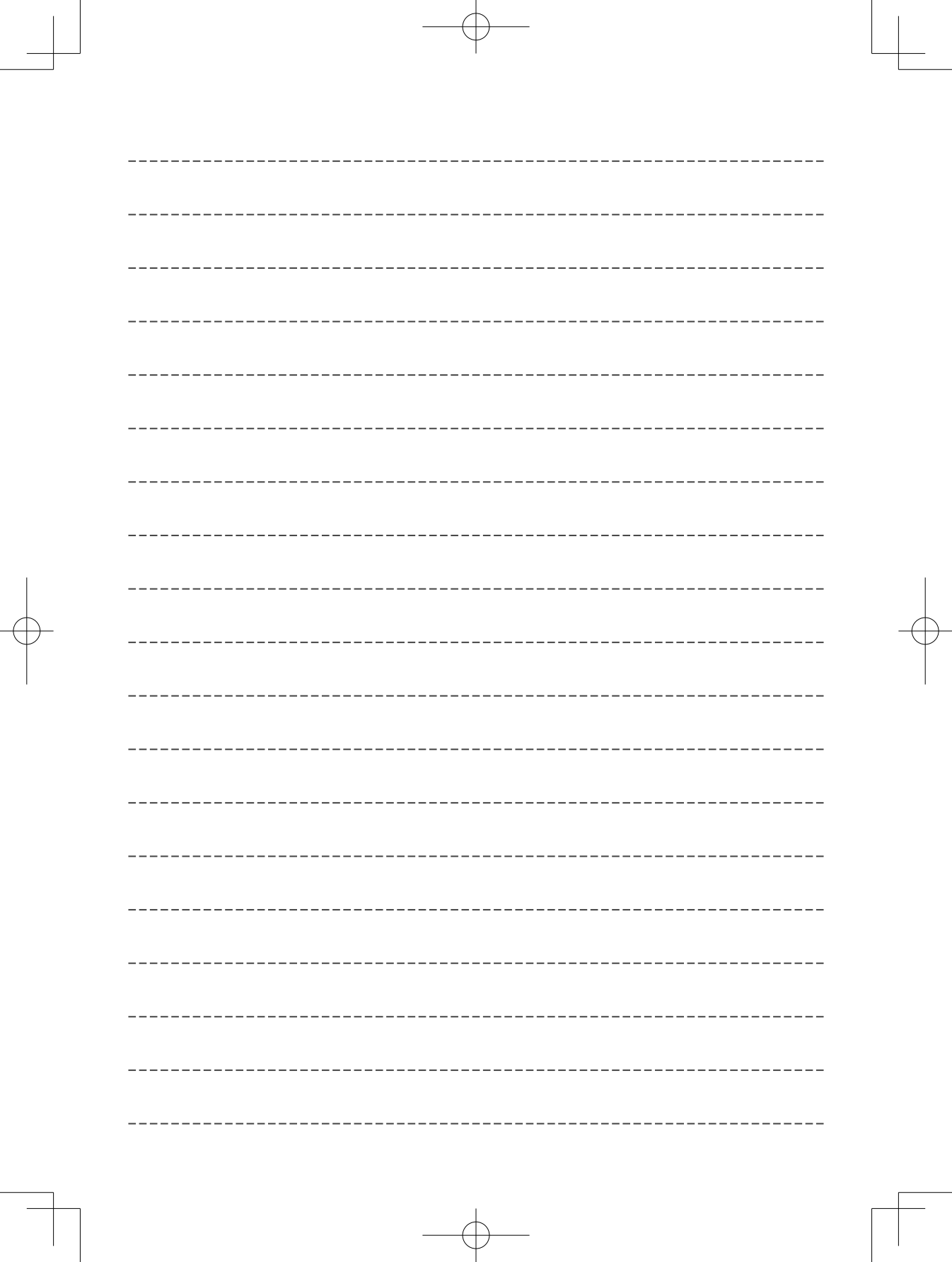
Remove the wall-hanging bracket / wall-hanging parts in the reverse order of installing.

- Before removing the TV from the wall, remove the speaker from the TV first.

Removing the TV with speaker from the wall may cause deformation or breakage of the brackets.

- Keep the removed parts for future use.





Panasonic Warranty

1. The product is warranted for 12 months from the date of purchase. Subject to the conditions of this warranty Panasonic or its Authorised Service Centre will perform necessary service on the product without charge for parts or labour, if in the opinion of Panasonic, the product is found to be faulty within the warranty period.
2. This warranty only applies to Panasonic products purchased in Australia and sold by Panasonic Australia or its Authorised Distributors or Dealers and only where the products are used and serviced within Australia or its territories. Warranty cover only applies to service carried out by a Panasonic Authorised Service Centre and only if valid proof of purchase is presented when warranty service is requested.
3. This warranty only applies if the product has been installed and used in accordance with the manufacturer's recommendations (as noted in the operating instructions) under normal use and reasonable care (in the opinion of Panasonic). The warranty covers normal domestic use only and does not cover damage, malfunction or failure resulting from use of incorrect voltages, incorrect installation, accident, misuse, neglect, build-up of dirt or dust, abuse, maladjustment of customer controls, mains supply problems, thunderstorm activity, infestation by insects or vermin, tampering or repair by unauthorised persons (including unauthorised alterations), introduction of sand, humidity or liquids, commercial use such as hotel, office, restaurant, or other business or rental use of the product, exposure to abnormally corrosive conditions or any foreign object or matter having entered the product.
4. This warranty does not cover the following items unless the fault or defect existed at the time of purchase:

(a) Cabinet Part(s)	(e) DVD, Blu-ray, or Recordable Discs
(b) Video or Audio Tapes	(f) Video / Audio Heads from wear and tear in normal use
(c) SD cards or USB devices	(g) Information stored on Hard Disk Drive, USB stick or SD card
(d) User replaceable Batteries	(h) DTV reception issues caused by TV Aerial / Cabling / Wall socket(s)

 etc
5. Some products may be supplied with Ethernet connection hardware. The warranty is limited on such products and will not cover
 - (a) Internet and or DLNA connection / setup related problems
 - (b) Access fees and or charges incurred for internet connection
 - (c) The use of incompatible software or software not specifically stipulated in the product operations manual; and
 - (d) Any indirect or consequential costs associated with the incorrect use or misuse of the hardware, its connection to the internet or any other device.
6. To claim warranty service, when required, you should:
 - Telephone Panasonic's Customer Care Centre on 132600 or visit our website referred to below and use the Service Centre Locator for the name/address of the nearest Authorised Service Centre.
 - Send or take the product to a Panasonic Authorised Service Centre together with your proof of purchase receipt as a proof of purchase date. Please note that freight and insurance to and / or from your nearest Authorised Service Centre must be arranged by you.
 - Note that home or pick-up/delivery service is available for the following products in the major metropolitan areas of Australia or the normal operating areas of the nearest Authorised Service Centres:
 - Plasma/LCD televisions / displays (screen size greater than 103 cm)
7. The warranties hereby conferred do not extend to, and exclude, any costs associated with the installation, de-installation or re-installation of a product, including costs related to the mounting, de-mounting or remounting of any screen, (and any other ancillary activities), delivery, handling, freighting, transportation or insurance of the product or any part thereof or replacement of and do not extend to, and exclude, any damage or loss occurring by reason of, during, associated with, or related to such installation, de-installation, re-installation or transit.

Panasonic Authorised Service Centres are located in major metropolitan areas and most regional centres of Australia, however, coverage will vary dependant on product. For advice on exact Authorised Service Centre locations for your product, please telephone our Customer Care Centre on 132600 or visit our website and use the Service Centre Locator.

In addition to your rights under this warranty, Panasonic products come with consumer guarantees that cannot be excluded under the Australian Consumer Law. If there is a major failure with the product, you can reject the product and elect to have a refund or to have the product replaced or if you wish you may elect to keep the goods and be compensated for the drop in value of the goods. You are also entitled to have the product repaired or replaced if the product fails to be of acceptable quality and the failure does not amount to a major failure.

If there is a major failure in regard to the product which cannot be remedied then you must notify us within a reasonable period by contacting the Panasonic Customer Care Centre. If the failure in the product is not a major failure then Panasonic may choose to repair or replace the product and will do so in a reasonable period of time from receiving notice from you.

THIS WARRANTY CARD AND THE PURCHASE DOCKET (OR SIMILAR PROOF OF PURCHASE) SHOULD BE RETAINED BY THE CUSTOMER AT ALL TIMES

If you require assistance regarding warranty conditions or any other enquiries, please visit the **Panasonic Australia** website www.panasonic.com.au or contact by phone on **132 600**
If phoning in, please ensure you have your operating instructions available.

Panasonic Australia Pty. Limited

ACN 001 592 187 ABN 83 001 592 187

1 Innovation Road, Macquarie Park NSW 2113

PRO-031-F11 Issue: 4.0

01-01-2011

WARRANTY - New Zealand only

WE WARRANT that the Panasonic Television that you have purchased is free from defects in material and workmanship under normal home use and service.

Accordingly, we undertake to repair, or at our option, replace without cost to the owner, either for material or labour, any part which within 12 months from the date of delivery is found to be defective, provided that the appliance has been used for domestic purposes only and in accordance with the instructions given in the Instruction Book and not been subjected to misuse, neglect or installed, dismantled, repaired or serviced by any other than an authorised Panasonic New Zealand Dealer or Panasonic New Zealand Authorised Service Centre.

NOTE

- Before reporting a fault, please ensure that you read the item "Troubleshooting" in the information section of your Panasonic Instruction Book.
- It is important to retain your proof of purchase as this will be required by the serviceman or retailer as proof of purchase date, should service be required.
- In the event of service being required, contact your Panasonic New Zealand retailer or Panasonic New Zealand Authorised Service Centre.

IMPORTANT

Any request for warranty service must be through an Authorised Panasonic New Zealand Service Centre who during the period of the warranty, undertakes to make any necessary adjustment and fit any replacement part supplied by the manufacturer, during normal working hours, or alternatively will arrange for such service to be provided by some other Panasonic New Zealand Authorised Service Centre.

NEW ZEALAND

Distributed in New Zealand by Panasonic New Zealand Limited

18 Sir Woolf Fisher Drive, Highbrook, East Tamaki, Private Bag 14911, Panmure, Auckland

Tel. 09 272 0100

Customer Care Center

Email: Customerservice@nz.panasonic.com

www.panasonic.co.nz

Information on Disposal in other Countries outside the European Union



This symbol is only valid in the European Union. If you wish to discard this product, please contact your local authorities or dealer and ask for the correct method of disposal.

Customer's Record

The model number and serial number of this product may 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

Serial Number

Panasonic Corporation

Web Site: <http://www.panasonic.com>

English