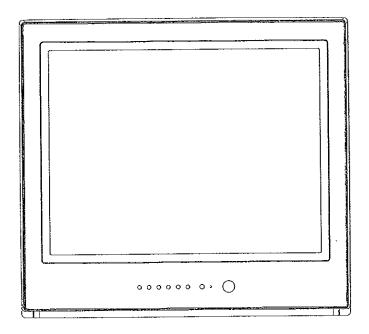


Color TV
With ATSC Tuner

C2012

User's Manual



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

DIMI SERVICE CORP.

PWW LIMITED WARRANTY FOR CRT TELEVISION PRODUCTS

PWW warrants this product to be free from manufacturing defects in material and workmanship under normal use for the period indicated on the warranty card.

What PWW will do:

- Pay an authorized PWW Service Center the labor charges to repair your television.
- Pay an authorized PWW Service Center for the new, or at our option, refurbished-replacement parts required to repair your television.

How to obtain service:

- Call the PWW Customer Support line documented on the warranty card, or visit <u>www.pwwservice.com</u> to locate the nearest authorized PWW Service Center.
- For televisions with screen sizes 25" or less you will be requested to bring your unit in to the authorized service center and pick up when repairs are complete.
- For televisions with screen sizes 27" and above you may request home service from an authorized PWW Service Center provided that your television is located within the geographic territory covered by an authorized PWW Service Center. If in-home service is not available in your area, you must take your television to the Service Center location at your own expense, or pay for the cost that the Service Center may charge to transport your television to and from your home.
- Proof of purchase in the form of a bill of sale or receipted invoice, which is evidence that the product is within the warranty period, must be presented to obtain warranty service.

This warranty does not cover:

- Removing CRT sets from custom wall mounts or cabinetry. All in-home service requests for CRT televisions requires that the unit be dismounted and accessible for the service technician prior to their arrival. Technicians are not responsible for remounting the CRT set upon completion of repairs. All costs and fees associated with mounting and unmounting units will be the sole responsibility of the customer.
- Physical or cosmetic damages.
- Ordinary adjustments as outlined in the owners manual that can be performed by the customer.
- · Damage to equipment not properly connected to the product.
- · Any cost incurred in shipping the product for repair.
- Signal reception problems caused by external antenna, cable systems or interference.
- Incompatibility due to a change in TV/CATV broadcast systems after the product was sold.
- Batteries.
- Images burnt on to the screen.
- Initial installation and related adjustments.
- Power surge and / or lightning protection.

This warranty is void:

- If the original proof of purchase cannot be supplied.
- Damaged through misuse, negligence or abuse.
- Modified or repaired by anyone other than authorized PWW service center.
- Damaged because it is improperly connected to any other equipment.
- Used in a commercial application or rental.

PWW Service Corp. is not liable for any claim made by a third party or made by you for a third party.

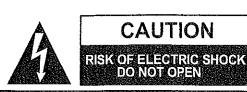
This warranty is not transferable and only applies to the original purchase, and only in the original country of purchase. Any implied warranties, including the warranty of merchantability, are limited in duration to the period of this expressed warranty and no warranty whether expressed or implied shall apply to the product thereafter. Under no circumstance shall PWW be liable for any loss or consequential damage arising out of the use of this product. This warranty gives specific legal right. However, you may have other rights that may vary from state/province to state/province. Some state/province do not allow limitations on implied warranties or exclusions of consequential damage. Therefore these restrictions may not apply to you.

Please retain your original proof of purchase and go to www.pwwservice.com to register your product.

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अंगिर्धारिया किया है। जिल्ला के भारता है।





CAUTION: TO REDUCE THE RISK OF ELECTRIC SHOCK, DO NOT REMOVE COVER(OR BACK). NO USER-SERVICEABLE PARTS INSIDE. REFER SERVICING TO QUALIFIED SERVICE PERSONNEL.



The lightning flash with arrowhead symbol, within an equilateral triangle is intended to alert the user to the presence of uninsulated dangerous voltage within the product's enclosure that may be of sufficient magnitude to constitute a risk of electric shock to persons.



The exclamation point within an equilateral triangle is intended to alert the user to the presence of important operating maintenance (servicing) instructions in the literature accompanying the appliance.

WARNING: TO REDUCE THE RISK OF FIRE OR ELECTRIC SHOCK, DO NOT EXPOSE THIS APPLIANCE TO RAIN OR MOISTURE.

- 1) Read these instructions.
- Keep these instructions.
- 3) Heed all warnings.
- 4) Follow all instructions.
- 5) Do not use this apparatus near water. Apparatus shall not be exposed to dripping or splashing and no objects filled with liquids, such as vases, shall be placed on the apparatus.
- 6) Clean only with dry cloth.
- 7) Do not block any ventilation openings. Install in accordance with the manufacturer's instructions.
- 8) Do not install near any heat sources such as radiators, heat registers, stoves, or other apparatus (including amplifiers) that produce heat.
- 9) Do not defeat the safety purpose of the polarized or grounding-type plug. A polarized plug has two blades with one wider than the other. A grounding type plug has two blades and a third grounding prong. The wide blade or the third prong are provided for your safety. If the provided plug does not fit into your outlet, consult an electrician for replacement of the obsolete outlet.
- 10) Protect the power cord from being walked on or pinched particularly at plugs, convenience receptacles, and the point where they exit from the apparatus.
- 11) Only use attachments/accessories specified by the manufacturer.
- 12) Use only with the cart, stand, tripod, bracket, or table specified by the manufacturer, or sold with the apparatus. When a cart is used, use caution when moving the cart/apparatus combination to avoid injury from tip-over.
- 13) Unplug this apparatus during lightning storms or when unused for long periods of time.
- 14) Refer all servicing to qualified service personnel. Servicing, is required when the apparatus has been damaged in any way, such as power-supply cord or plug is damaged, liquid has been spilled or objects have fallen into the apparatus, the apparatus has been exposed to rain or moisture, does not operate normally, or has been dropped.
- 15) Never attempt to move the TV unless the AC power cord has been disconnected.
- 16) Ventilation

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

Power Sources

This product should 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. For products intended to operate from battery power, or other sources, refer to the operating instructions.

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18) Power Lines

An outside antenna system should not be located in the vicinity of overhead power lines or other electric light or power circuits, or where it can fall into such power lines or circuits. When installing an outside antenna system, extreme care should be taken to keep from touching power lines or circuits as contact with them might be fatal.

19) Overloading

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

20) Outdoor Antenna Grounding

If an outside antenna is connected to the product, be sure the antenna system is grounded so as to provide some protection against voltage surges and built-up static charges. Section 810 of the National Electric Code, ANSI/NFPA 70, provides information with respect to proper grounding of the mast and supporting structure, grounding of the lead-in wire to an antenna discharge product, size of grounding conductors, location of antenna discharge product, connection to grounding electrodes, and requirements for grounding electrodes.

21) 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.

22) Replacement Parts

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

23) 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.

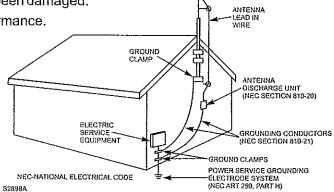
24) Damage Requiring Service

Unplug the 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 has been exposed to rain or water.
- d. If the product does not operate normally after installation by following the operating instructions. Adjust only those controls that are covered by the operating instructions, as 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.
- e. If the product has been dropped or the cabinet has been damaged.
- f. When the product exhibits a distinct change in performance.

25) Note To CATV System Installer

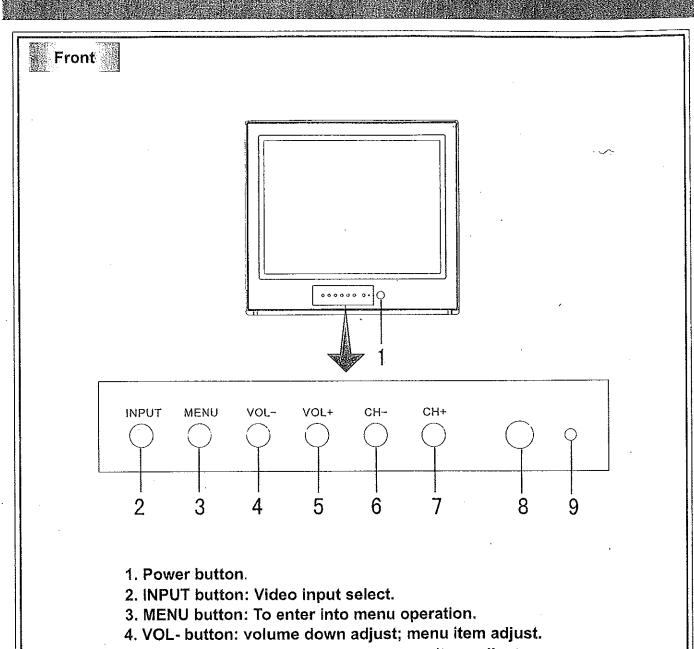
This reminder is provided to call the CATV system installer's attention to Article 820-40 of the NEC that provides guidelines for proper grounding and, in particular, specifies that the cable ground shall be connected to the grounding system of the building, as close to the point of cable entry as practical.



EXAMPLE OF ANTENNA GROUNDING AS PER NATIONAL ELECTRICAL CODE

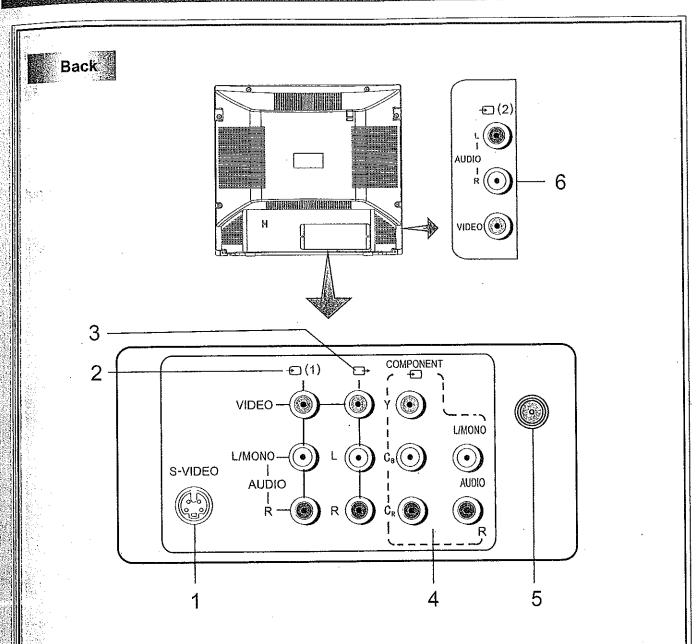
WARNING: FOR CONTINUED SAFETY, REPLACE SAFETY CRITICAL COMPONENTS ONLY WITH MANUFACTURER'S RECOMMENDED PARTS (REFER TO SERVICE LITERATURE).

Identification of Controls



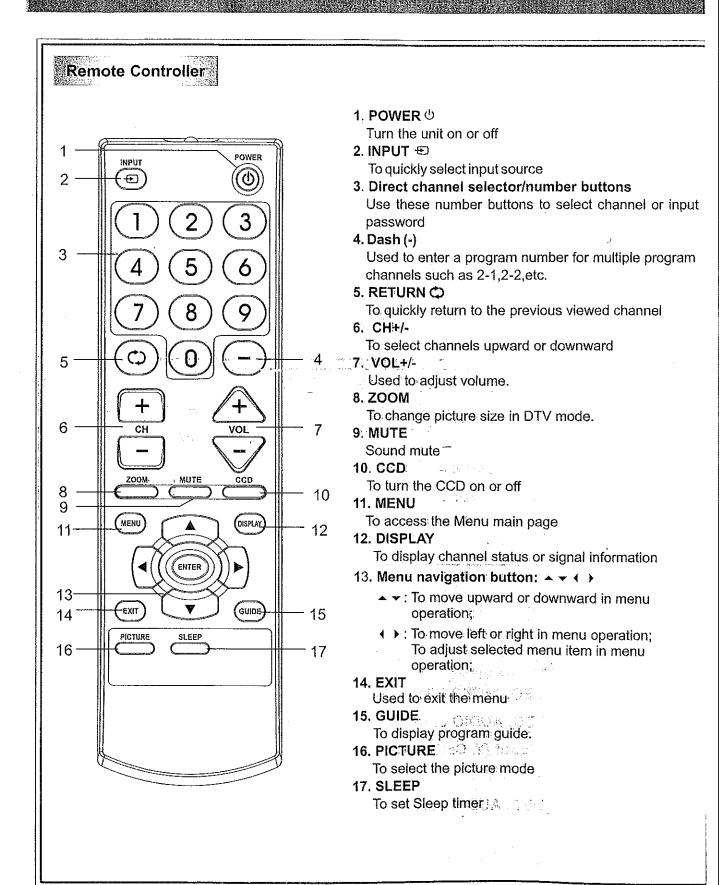
- 5. VOL+ button: volume up adjust; menu item adjust.
- 6. CH- button: channel down select; menu item select.
- 7. CH+ button: channel up select; menu item select.
- 8. Remote sensor.
- 9. Indicator.

Identification of Controls (continued)

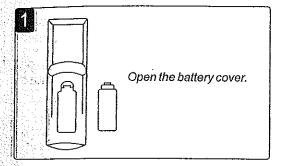


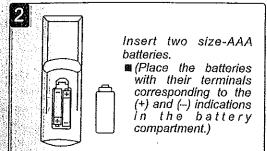
- 1. S-VIDEO input
- 2. AV1 input (VIDEO, AUDIO L/MONO, R)
- 3. AV output(VIDEO, AUDIO L, R)
- 4. COMPONENT input (Y, CB,CR, AUDIO L/MONO, R)
- 5. Antenna input
- 6. AV2 input (VIDEO, AUDIO L, R)

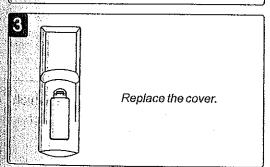
Identification of Controls(continued)



Installing batteries





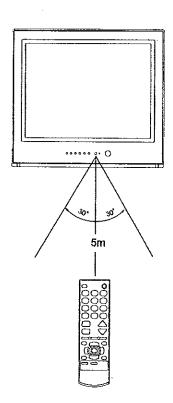


Notes:

- Do not try to recharge batteries they are not intended to be recharged.
- Use only the size and type of batteries specified.

 Do not mix different types of batteries together or old batteries with fresh ones.
- When the remote control will not be used for a long period of time or when the batteries are worn out, remove the batteries.
- Do not throw the batteries into a fire. Dispose of used batteries in the specified manner.
- Do not drop, dampen or disassemble the remote control.

Effective range of the Remote



Notes:

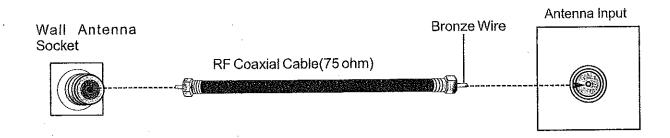
- When there is an obstacle between the TV and the transmitter, the transmitter may not operate.
- When direct sunlight, and incandescent lamp, fluorescent lamp or any other strong light shines on the REMOTE SENSOR of the TV, the remote operation may be unstable.

Installation

Antenna installation

INSTALL the unit in a room where direct light will not fall upon the screen. Total darkness or a reflection on the picture screen may cause eyestrain. Soft and indirect lighting is recommended for comfortable viewing.

Optimum reception of colour requires a good signal and will generally mean that an outdoor antenna must be used. The exact type and position of the antenna will depend upon your particular area.



Notes:

- It is recommended that the 75-ohm coaxial cable be used to eliminate interference and noise which may occur due to radio wave conditions.
- The antenna cable should not be bundled with the power cord and the like.
- If the antenna is not installed properly, contact your dealer for assistance.

Installation (continued)

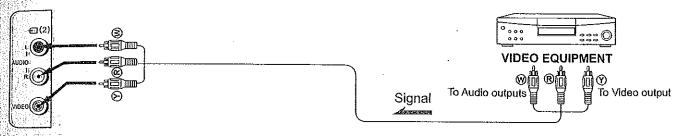
Connecting video and audio equipment

This TV set provides 2 groups of AV input terminals and one group of COMPONENT input terminals for your convenient connection to VCR, DVD or other video equipment to enjoy the high quality picture.

Please refer to the owner's manual of the equipment to be connected as well.

Connect Side AV Input Terminals

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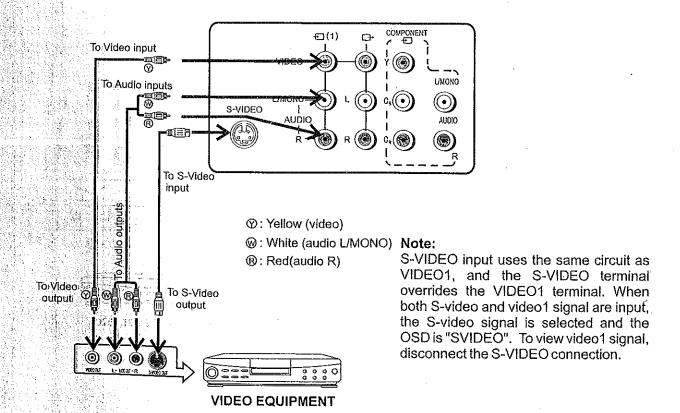


To view the program from the AV2 input terminals, please press INPUT button on the remote control repeatedly until AV2 appears on the screen.

Connecting Rear AV Input Terminals

Connect the Audio/Video cables between the Audio(L,R)/Video terminal on the unit and the video equipment. For better video, you can use the S-Video terminal if your source supports it.

To view the program from the AV1 input terminals, please press INPUT button on the remote control repeatedly until AV1 appears on the screen.



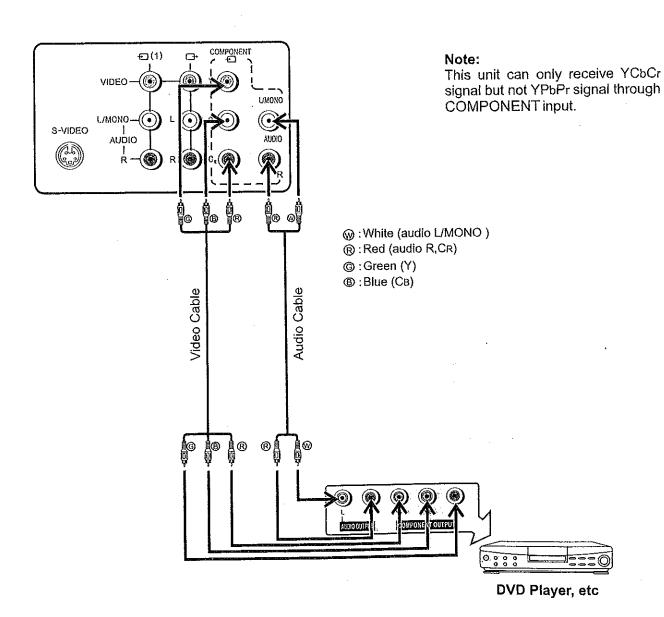
Installation (continued)

Connecting COMPONENT input

Connect the component video cable between Y,CB,CR input terminals on the unit and Y,CB,CR output terminals on the DVD player.

Connect the Audio cable between the audio input terminals on the unit and audio output terminals on the DVD player.

To view the program from the COMPONENT input terminals, please press **INPUT** button on the remote control repeatedly until **COMPONENT** appears on the screen.



Installation (continued)

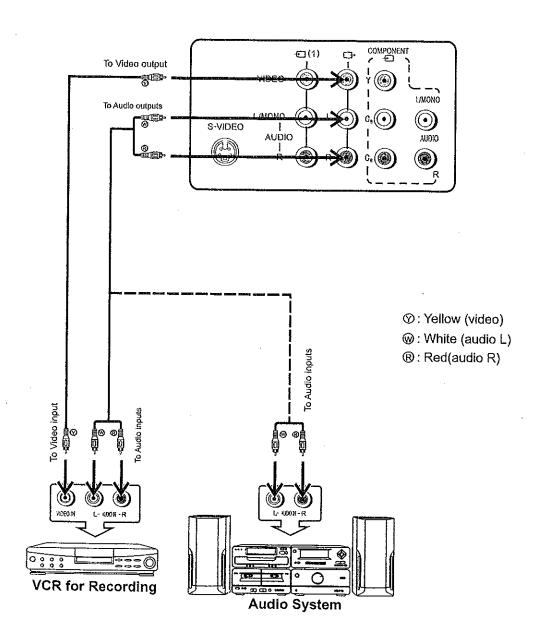
Connecting the AV outputs

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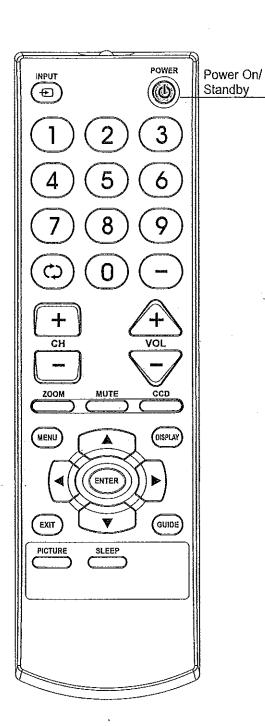
DVD

ontrol

You can connect an audio system to the AV output terminals on the TV set rear to enjoy a high-quality sound from the audio system, or you can connect the AV output terminals to the VCR to record the program you like.



Basic Operation



Turning on

1 Insert the AC plug into a conveniently located AC outlet.

If no picture appears and the standby indicator lights up, then the TV set is in STANDBY mode. Now please follow step 2.

Notes:

The AC plug supplied with the unit is polarized to help minimize the possibility of electric shock. If the AC plug does not fit into a nonpolarized AC outlet, do not file or cut the wide blade. It is the user's responsibility to have an electrician replace the obsolete outlet.

To prevent electric shock, do not use a (polarized) plug with an extension cord receptacle or other outlet unless the blades can be fully inserted.

2 In STANDBY mode, press the Power button on the TV set or on the remote controller and the TV set will be turned on.

Turning off

- 1 Press the Power & button on the remote controller or on the TV set to turn off the TV set.
- 2 If you do not intend to use your TV for an extended period of time, unplug the power cord from the power outlet.

Notes:

- The TV set can turn off automatically by **Sleep** timer function (needs to be set in advance).
- If there is no input signal for 15 minutes, the TV set can turn off automatically.
- After you turn off the TV, you should wait at least 5 seconds if you want to turn the TV on again.

Basic Operation (continued)

Navigating the menus

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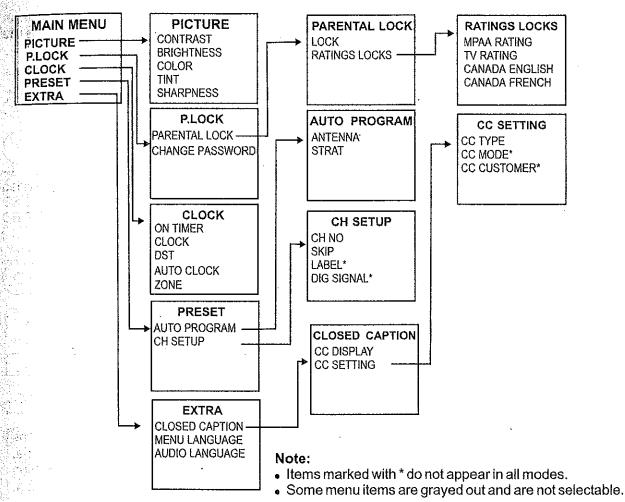
on

off

₃ if

This unit has a simple, easy-to-use menu system that appears on the screen. This system makes it convenient and fast to use features on the unit. You can also display the status of TV features while watching a program.

Main Menu Overview (TV Mode)



Menu navigation

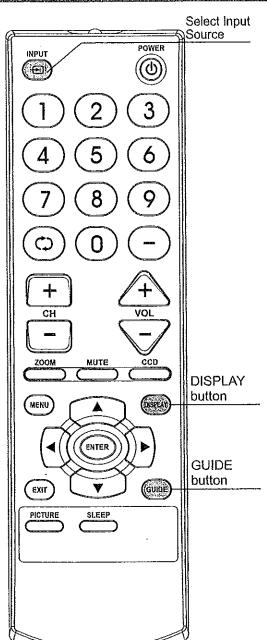
- With the power on, press the **MENU** button to display the main menu.
- 2 Press → or ▲ button to select menu.
- 3 Press ← or ➤ button to enter the menu.
- Within the menu, use マ or ▲ to select, use ∢ or ▶ to adjust or enter sub-menu.
- 5 Press MENU button to return to the previous menu.

 Press EXIT button to exit the main menu and return to your program.

Note:

- To clearly introduce the menu operations, this operation manual provides a description based on operation with the remote control.
- •The illustrations and on-screen displays in this manual are for explanation purposes(some are enlarged, others cropped) and may vary slightly from the actual ones.

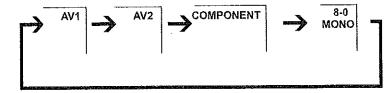
Basic Operation (continued)



Watching AV program

This TV set provides 2 groups of AV input terminals and one group of COMPONENT input terminals for your convenient connection to VCR, DVD or other video equipments.

To watch a video program from AV inputs, press INPUT button repeatedly until you see the appropriate input indicator on the screen.



Note: S-VIDEO input uses the same circuit as VIDEO1, and the S-VIDEO terminal overrides the VIDEO1 terminal. When both S-video and video1 signal are input, the S-video signal is selected and the OSD is "SVIDEO". To view video1signal, disconnect the S-VIDEO connection.

Switching from AV to TV

Press INPUT button on the remote controller.

Press this button repeatedly until the picture of TV program appears.

Displaying the information banner

The information banner displays status information such as channel number and signal source. Depending on the mode, different information is displayed. In DTV mode, more information (such as channel number and channel name, signal resolution, etc.) can be displayed.

Press DISPLAY button and the information banner appears.

Using the program guide

You can press **GUIDE** button on the remote control to display guide information if available. You can obtain program broadcasting time and program name from the guide.

Note:

The GUIDE works only with digital channels.

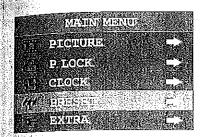
GUIDE

07:00PM-08:00PM WGBH-S WGBH DEV Broadcast Signal 08:10PM-10:00PM WGBH-S WGBH DTV Broadcast Signal

Press (or) to scroll page if there are two or more pages.

(Example)

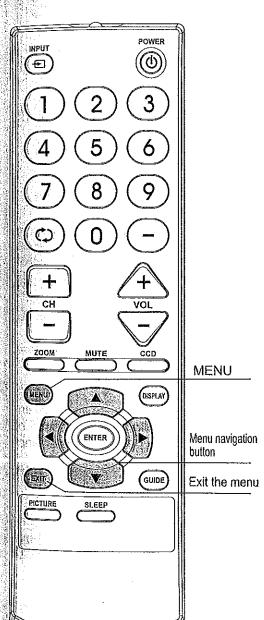
Tuning in



to

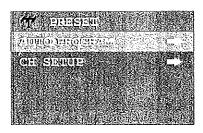
S-eo S-eo S-eo S-eo

197



To enter the PRESET menu

- ▶ Press MENU button.
- Press ▲ or ▼ button to select PRESET item.
- Press (or) button to enter PRESET menu.



Auto program

When you turn on the TV for the first time, you should perform an auto program to set up stations on your TV. Below is the steps.

- 1 Enter the PRESET menu, highlight AUTO PROGRAM item.
- 2 Press ← or → button to enter AUTO PROGRAM sub menu.
- 3 Highlight ANTENNA item, press (or) button to select AIR or CABLE.

In AIR mode, the set receives antenna signals. In CABLE mode the set receives Cable TV programs. Please select:
AIR: If using VHF/UHF antenna.
CABLE: If using Cable TV.



4 Press

button to select START item.

Press

or

button to start Auto Program.

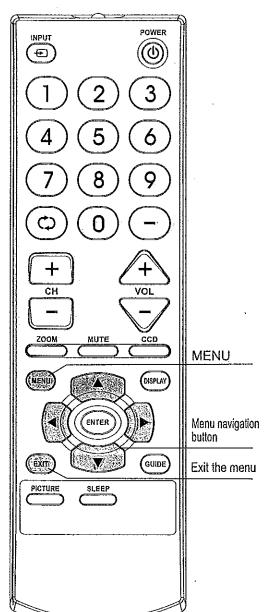
The unit begins to search and memorize all available programs. Please wait patiently since it will take some time to finish searching.

Note:

The TV set will first memorize analog programs. After all available analog programs have been memorized, it begins to memorize DTV programs. During analog program memorizing, you can press MENU button to stop it, then the TV turns to memorize DTV programs. If you want to stop DTV program memorizing, just press MENU button again.

Tuning in (continued)





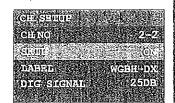
Skipping an unnecessary channel

After saving channels into memory, you can skip unnecessary channels so that only the channels you want to watch are selected with the CH+/- buttons.

- Enter the PRESET menu, press ▲ or ▼ button to select CH SETUP item.
- Press (or) button to enter CH SETUP menu.
- Press ▲ or ▼ button to select CH NO. item.
- Press (or) button to select a channel number (for example, channel 2-2).
- Press → button to select SKIP item.
- Press (or) button to set to ON.

Now channel 2-2 will be skipped when you browse channels by CH+/- button.

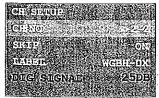
To restore a skipped channel, please use digit buttons to select the skipped channel, then repeat the above steps and set the SKIP item to OFF.



Checking the DTV signal strength

You can check the strength of your DTV signal and determine whether you need to adjust your antenna or digital cable input. The stronger the signal strength, the less likely you are to experience picture degradation.

Enter the PRESET menu, press - or → button to select CH SETUP item. press (or) button to enter CH SETUP menu. Now the menu bottom line shows the signal strength for the current DTV channel.



Viewing channel label (Only for DTV programs)

You can make use of the information banner to know the channel label for the current DTV program. You can also open the CH SETUP menu and view the channel label . Note that the channel labels are automatically assigned and can not be changed by users.

Channel Selection

Information about USA channel numbering

- ATSC PSIP channel has two part channel number:
 - Major channel number
 - Minor channel number

For example: Channel: 5-1

Major channel number

Minor channel number

- In US, in most situations the major channel number is same for both analog and digital channels (It is equal to the NTSC channel number for existing broadcasters.)
- In US, a minor channel number of zero is used for a broadcaster's analog channel.

Channel Numbering Example

- Original NTSC Channels for Des Moines:
 - **--** 5, 8, 11, 13, 17
- Possible NTSC + ATSC Channels for Des Moines:
 - 5-0, 8-0, 11-0, 13-0, 17-0 (channel numbers for existing analog channels)
 - 8-1, 8-2, 8-3,8-4, 13-1 (channel numbers for digital 5-1, 5-2, channels)

ENTER button Channel selection

Using the number pad

Press the **number** buttons **(0-9)** and the **dash (-)** button, then wait for some seconds (or press **ENTER** button) to go directly to that channel. For example, if you want to select channel 8-3, press 8-3 on the remote control. (Make sure that you press the buttons within three seconds of each other, or the channel won's be entered correctly.)

Note: In some situations, virtual channel numbers do not correspond to physical frequencies.

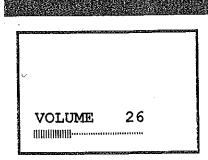
2 Use CH+ or CH- button

Press CH+ button, the channel number increases; Press CH-button, the channel number decreases.

Press this button to switch between the current channel and the previous channel.

1

Sound Control



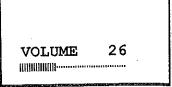
1 Use VOL+ or VOL- button.

Press VOL+ button, the volume increases; Press VOL-button, the volume decreases.

2 Use MUTE button.

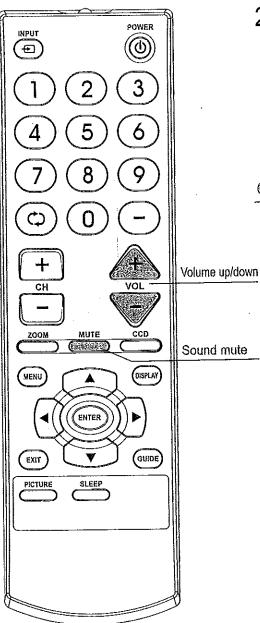
If you want to mute the sound, press MUTE button on the remote.

To resume the sound, press this button again.

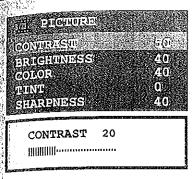


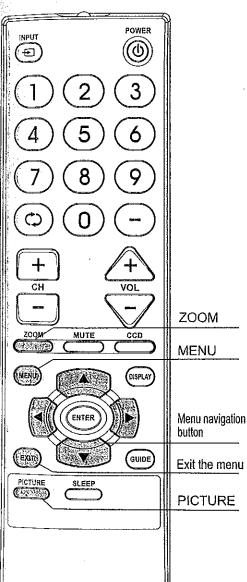
Notes:

- You can also resume the sound by pressing VOL+ button.
- If you mute the sound the color of VOLUME displayed on the screen is red, after resuming the sound the color of VOLUME displayed on the screen is green.



Adjusting Picture





Adjusting picture

- 1 Press MENU button.

 Now the PICTURE item is highlighted automatically.
- 2 Press ← or → button to enter PICTURE menu.
- 3 Press ▲ or ▼ button to select item.
- 4 Press ∢ or ▶ button to adjust.

ltem	Press •	Press >
Contrast	weaker	stronger
Brightness	darker	lighter
Color	paler	deeper
Tint	purplish	greenish
Sharpness	softer	sharper

Press PICTURE button to select picture mode.

There are three preset picture modes (STANDARD, DYNAMIC and SOFT) and one user-set picture mode (PERSONAL).

You can quickly select Picture mode by pressing the **PICTURE** button on the remote control.

STANDARD: Select for a normal picture.

DYNAMIC: Select for a bright and dynamic picture.

SOFT: Select for a finely detailed picture. **PERSONAL**: The picture quality you set.

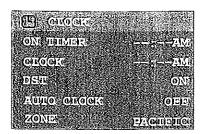
Changing picture size

(only in DTV mode)

You can change picture size (aspect ratio) according to your video signal type or personal preference.

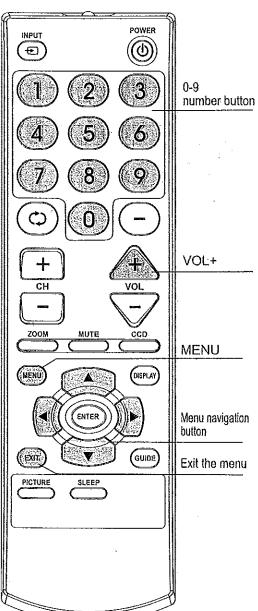
When the video signal type is in16:9 format, press the **ZOOM** button to select the desired picture size (aspect ratio). You can select between NORMAL and ZOOM.

Timer Setting



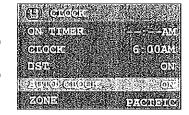
To enter the CLOCK menu

- Press MENU button.
- ▶ Press ▲ or ▼ button to select CLOCK item.
- ▶ Press (or) button to enter CLOCK menu.



Auto Clock Setup

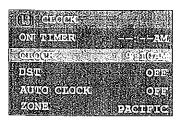
- With the Auto Clock function ON, the time is set automatically from a digital channel signal.
- If the TV loses power, the clock setting you have made will be cleared.
- 1 Enter the CLOCK menu, press or button to select AUTO CLOCK item and then use or to turn the AUTO CLOCK function ON.



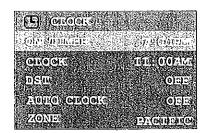
- 2 Press A or V button to select ZONE item, use (or) to select your viewing area time zone.
- 3 If your viewing area uses DST(Daylight Saving Time), set DST to ON in the menu, otherwise set it to OFF.

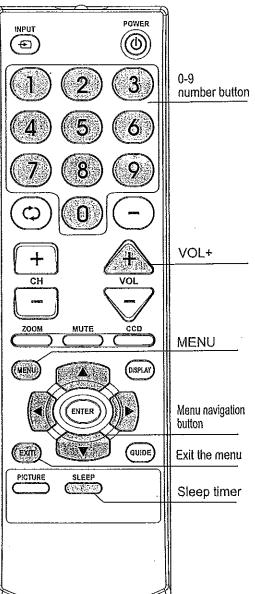
Manual Clock Setup

- If current time setting is wrong by the auto clock function, reset the clock manually.
- If the TV loses power, the clock setting you have made will be cleared.
- 1 Enter the CLOCK menu, set AUTO CLOCK item to OFF.
- 2 Press ▲ or ▼ button to select CLOCK item.
- Press VOL+ button to select AM or PM.
- 4 Using 0-9 buttons to input the current time.



Timer Setting (continued)





On Timer Setup

- On timer function operates only if current time has been set.
- The TV must be in standby mode for the on timer to work.
- If the TV loses power, the timer setting will be cleared.
- 1 In CLOCK menu, highlight ON TIMER item.
- 2 Press VOL+ button to select AM or PM.
- 3 Use 0-9 buttons to input the TV ON time, for example, 7:00PM.
- 4 Press () button to switch the TV to standby mode. At the preset time, the TV will turn on automatically.

Setting Sleep timer

You can quickly set the sleep timer by using the **SLEEP** button on the remote controller. With every press of this button the sleep time changes as follows:

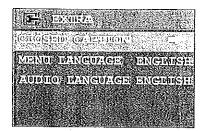
0 Minute→5 Minutes →10 Minutes →180 Minutes →240 Minutes

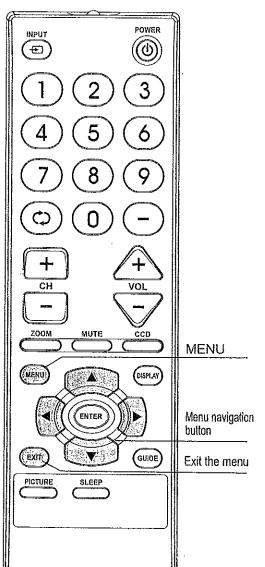
For example, you would like the TV to auto turn off in 60 minutes, you can press the SLEEP button repeatedly till the screen displays as the right figure.

To cancel sleep timer, press the SLEEP button repeatedly till "0 MINUTE" appears.

60 MINUTE

System Setting



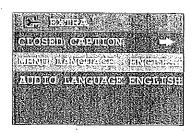


To enter the EXTRA menu

- Press MENU button.
- Press ▲ or ▼ button to select EXTRA item.
- Press (or) button to enter EXTRA menu.

Selecting the OSD menu language

- Enter the EXTRA menu, press or ▼ button to select MENU LANGUAGE item.
- Press ← or → button to select a proper OSD MENU language.



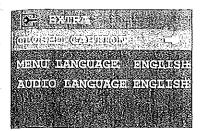
Selecting AUDIO language (only in DTV mode)

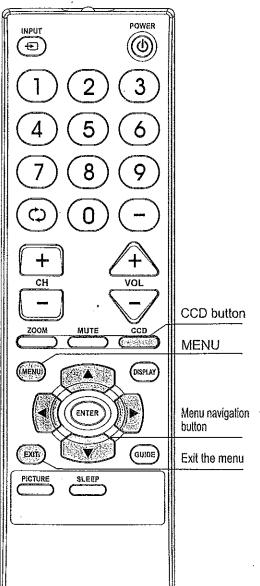
DTV can simultaneously transmit many audio tracks (for example, simultaneously translations of the program into foreign languages). The availability of these optional audio tracks depends upon the program.

- In EXTRA menu, press ▲ or ▼ button to select AUDIO LANGUAGE item.
- Press (or) button to select a proper AUDIO language.



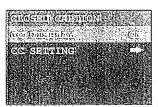
System Setting-Closed Captions





Setting up Closed Captioning

1 Enter the EXTRA menu, highlight CLOSED CAPTION menu item, press the (or) button to enter the menu.



2 Highlight CC DISPLAY item, press 4 or > button to select Caption ON, CC MUTE or OFF.

CC MUTE shows the captions (if available on program) when the TV sound is muted.

You can also press CCD button to select CCD ON, CCD OFF or CCD MUTE.

Selecting the caption type

Captions and text, if provided by the broadcaster, are available for both digital and analog channels.

Select a caption type for displaying captioning information. Analog captions display information on the screen (usually the program dialog). Text from digital modes displays information, usually at the bottom of the screen, and is used for a data service (generally not program related).

1 Navigate to the CLOSED CAPTION menu, highlight CC SETTING item, press (or) button to enter the menu.

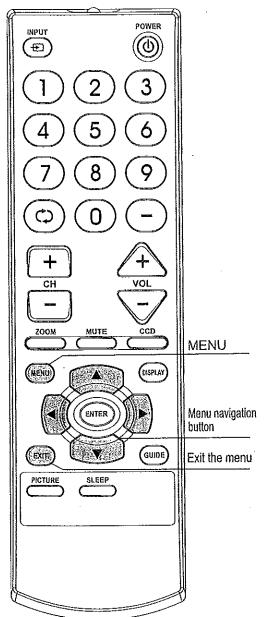


2 Highlight CC TYPE item, press or button to select the caption type.

(The above OSD is illustrated as in DTV mode)

System Setting-Closed Captions

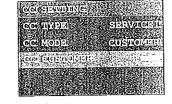




Customizing digital Closed Captions

You can customize the digital closed captions that appear on your screen.

- 1 Navigate to the CLOSED CAPTION menu, highlight CC SETTING item, press ← or → button to enter the menu.
- Press or button to highlight CC MODE item, press or button to select CUSTOMER. (If you do not want to customize the digital closed captions, please select BROADCAST, and the captions will be shown as broadcast.)
- 3 After CUSTOMER is selected, press → button to highlight CC CUSTOMER item, press ← or → button to enter the menu.



Within the menu, press ▲ or ▼ button to select the item you want to change, then press ∢ or ▶ to customize the setting to your preference.

You may select OTHERS item, then press (or) to enter the next-level menu and customize more settings.



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			2015

You can change the following settings:

CC STYLE: Sets a style for the words.

CC SIZE: Sets the size of the words. CC COLOR: Sets a color for the text.

BK COLOR: Sets a background color.

CC OPACITY: Sets the opacity of the text color.

BK OPACITY: Sets the opacity of the background color.

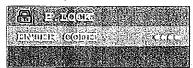
EDGE COLOR: Sets a color for the edges.

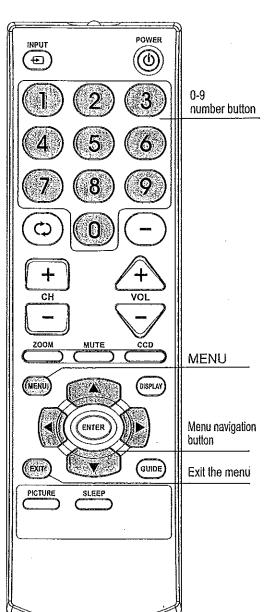
EDGE TYPE: Sets an edge type.

5 Press EXIT to return to TV viewing, or press MENU to return to the previous menu.

Parental Control

PARENTAL CONTROL enables parents to prevent their children from watching inappropriate material on TV. PARENTAL CONTROL reads the ratings for programming (except for news, sports, unedited movies on premium cable and Emergency System signals), then denies access to programming if the program's rating meets the limitations you select. In this case, the program will be blocked.





To enter the P.LOCK menu

- Press MENU button.
- ▶ Press A or ▼ button to select P.LOCK item, press ← or ▶ button to enter.
- Input the password to enter the P.LOCK menu.
 The preset password to enter P.LOCK is "0000" and it can be changed.

Setting up the P.LOCK password

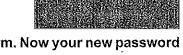
To use Parental Controls, you must first set your password.

- 1 Use the password to enter the P.LOCK menu (the preset password is 0000).
- Press → or → button to select CHANGE PASSWORD item, press → or → button to enter the menu.
- 3 Highlight NEW PASSWORD item, use the number buttons to enter a new password.
- CHANGE PASSWORD

 CHANGE PASSWORD

 CONFIRM PASSWORD

PARENTIAL LOCK



4 Enter the password again to confirm. Now your new password has been created.

Caution: write down your password and save it for future use.

What do I do if I forget my password?

When you forget the password and can not enter the **P.LOCK** menu, the following steps can help you.

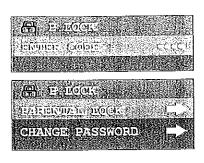
- 1. Press MENU button,
- 2. Press ▲ or ▼ to select P.LOCK item.
- 3. Press ∢ or ▶.
- 4. Enter the super password "1, 3, 9, 7" in order.

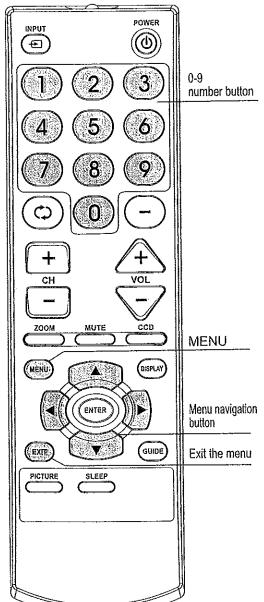
 After finish inputting the password, the "SET CODE" character appears.
- 5. Enter a new password (four-digit).

Now the "SET CODE" character changes to "P.LOCK", the old password has been cleared and this new password has been created.

Note: the super password "1397" always remain valid for resetting your password.

Parental Control(continued)

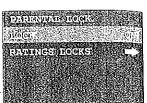




Enabling Parental Controls

To enable the blocking scheme you set up, you should set PARENTAL LOCK to ON. Below is the steps.

- 1 Use the password to enter the P.LOCK menu.
- 2 Highlight PARENTAL LOCK item, press (or) button to enter the menu.



3 Highlight LOCK item, press (or) button to set ON to enable the blocking scheme.

If you want to disable the blocking scheme, set the item to OFF.

Setting up MPAA ratings

- 1 Use the password to enter the P.LOCK menu.

 Highlight PARENTAL LOCK item, press ← or → button to enter PARENTAL LOCK menu.
- 2 Highlight RATINGS LOCKS item, press for button to enter the menu.
- 3 Highlight MPAA RATING item, press
- 4 Press ▲ or ➤ to select the desired rating, press ← or ➤ button to either block the rating or unblock (VIEW will be displayed).



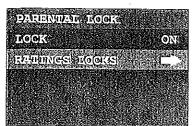
Movie Ratings:

- * G and Above (general audience)
- * PG and Above (parental guidance suggested)
- * PG-13 and Above (13 years and up)
- * R and Above (restricted)
- * NC-17 and Above (18 years and up)
- * X (adult)

If you set PG-13: G and PG movies will be available, PG-13, R, NC-17 and X will be blocked.

5 Press EXIT to return to TV viewing, or press MENU to return to the previous menu.

Parental Control (continued)



et

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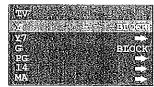
Setting up TV ratings

TV ratings include two components: a general criteria (age-based) and a detailed criteria (content-based).

- Use the password to enter the P.LOCK menu, and then navigate to RATINGS LOCKS sub menu.
- Press ▲ or ▼ to select TV RATING item, press ∢ or → button to enter the menu.



Press A or vto select the desired rating, press (or) button to either block the rating or unblock (VIEW will be displayed).



If the rating includes content-based ratings, highlight this rating and then press (or) to enter its next-level menu. Use ▲ or ▼ to select item, use (or > button to either block or unblock (VIEW will be displayed).



- * TV-Y (all children)
- *TV-Y7 (7 years and up)
- *TV-G (general audience)
- *TV-PG (parental guidance suggested)
- *TV-14 (14 years and up)
- *TV-MA (mature audience)

Content-based ratings:

* F V: fantasy violence

(applies only to TV-Y7)

* V: Violence

(applies to TV-PG, TV-14, TV-MA)

*S: Sex scenes

(applies to TV-PG, TV-14, TV-MA)

*L: adult language

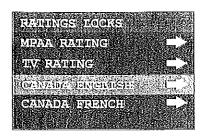
(applies to TV-PG, TV-14, TV-MA)

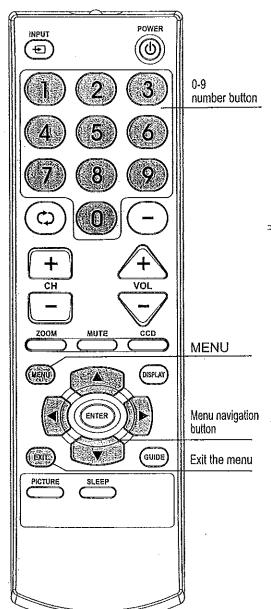
(applies to TV-PG, TV-14)

* D: sexual dialogue

Press EXIT to return to TV viewing, or press MENU to return to the previous menu.

Parental Control (continued)





Setting up Canadian English ratings

- 1 Use the password to enter the PLOCK menu, and then navigate to RATINGS LOCKS menu.
- 2 Press or to select CANADA ENGLISH item, press or button to enter the menu.
- 3 Press ▲ or ▼ to select the desired rating, press ← or ▶ button to either block the rating or unblock (VIEW will be displayed).



Canadian English Ratings:

- * C: Children.
- * C8+: Children 8 years and older.
- * G: General programming, suitable for all audiences.
- * PG: Parental guidance.
- * 14+: Viewers 14 years and older.
- * 18+: Adult programming.

Setting up Canadian French ratings

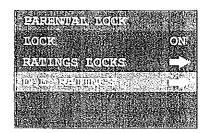
- 1 Use the password to enter the P.LOCK menu, and then navigate to RATINGS LOCKS menu.
- 2 Press ▲ or ▼ to select CANADA FRENCH item, press ← or ▶ button to enter the menu.
- 3 Press ▲ or ▼ to select the desired rating, press ← or ▶ button to either block the rating or unblock (VIEW will be displayed).

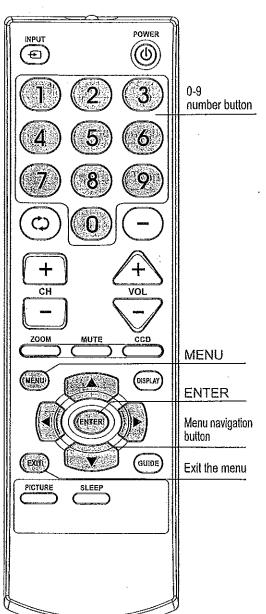


Canadian French Ratings:

- * G: Children.
- *8 ans+: Children 8 years and older.
- * 13 ans+: Children 13 years and older.
- * 16 ans+: Viewers 16 years and older.
- * 18 ans+: Adult programming.
- 4 Press EXIT to return to TV viewing, or press MENU to return to the previous menu.

Parental Control (continued)





Setting up RRT5 criteria ratings

If the broadcasting program uses RRT5 (Rating Region Table-Region 5) criteria rating in accordance with the FCC Rules, its rating can be downloaded to this TV and can be used for parental controls.

- 1 Use the password to enter the P.LOCK menu, and then navigate to PARENTAL LOCK menu.
- 2 Highlight the rating choice at the last line of the menu screen, then press (or) to enter the menu.
- 3 Press ▲ or ▼ to select the desired item, press ← or ▶ button to enter the menu.
- 4 Within the menu, press ▲ or ▼ to select the desired rating, press ← or ▶ button to block the rating or unblock. Press ENTER button to scroll page if there are more than one menu page.





(The above OSD is shown as an example.)

5 Press EXIT to return to TV viewing, or press MENU to return to the previous menu.

Troubleshooting

Please check the following if you are having trouble with your TV.

	SYMPTOM	POSSIBLE CAUSE	POSSIBLE SOLUTION	
Power	No power	The AC power cord is not connected.	Connect the AC power cord to the AC outlet	
of the section of the	Poor or no picture.	TV station experiencing problems.	Try another channel.	
		Picture control is not adjusted.	Check picture control adjustments.	
		Possible local interference.	Check for source of reception disturbance	
		Antenna/Cable connector is not connected.	Check Cable connection or VHF/UHF ant.	
		TV station experiencing problems.	Try another channel.	
	Picture wobbles or drifts.	Cable TV channel is scrambled.	A Cable box needs to be used (if desired).	
ion	or armo.	Possible local interference.	Check for source of reception disturbance	
ept		Cable connected or not connected.	Check all Cable connections.	
rec	No Cable reception.	AIR/Cable set to AIR.	Set AIR/Cable to Cable	
cast		Cable TV service interrupted.	Contact your Cable TV company.	
TV broadcast reception	No reception above CH13.	AIR/Cable set to AIR.	Set AIR/Cable to Cable.	
=		TV station experiencing problems.	Try another channel.	
	Poor or no sound.	MUTE button is pressed.	Press MUTE button again.	
		Possible local interference.	Check for source of reception disturbance.	
		Antenna/Cable connector is not connected.	Check Cable connection or VHF/UHF ant.	
		Volume is set to minimum.	Increase volume.	
	TV Shuts off.	Sleep Timer is set.	Set Sleep Timer to "Off".	
	Closed Captioning not working.	TV Signal is weak.	Check Cable or VHF/UHF antenna.	
		TV station experiencing problems or program tuned is not closed captioned.	Try another channel.	
		Closed Captioning not turned on.	Press the CCD button.	
Remote Control	Remote control does not operate.	The remote control is not aimed at the sensor.	Aim the remote control at the Remote sensor.	
		Distance is too far or too much light in the room.	Operate within 23 feet or reduce the light in the room.	
not		There is an obstacle in the path of the beam.	Clear the path of the beam.	
Re		The batteries are weak.	Replace the batteries.	
		The batteries are not inserted correctly.	Insert correctly.	
Parental Control	Parental Control not Working properly.	Parental Control is set to "Off".	Set Parental Control to "On".	
		News or sports event being broadcast.	Parental Control does not work with News or sporting events.	
		Ratings not set.	Set ratings as desired.	

Troubleshooting (continued)

RECEPTION DISTURBANCES

Most types of television interference can be remedied by adjusting the height and position of the VHF/UHF antenna. Outdoor antennas are recommended for best results if not using cable or a satellite. The most common types of television interference are shown below. If one of these symptoms appear when the TV is connected to a Cable TV system, the disturbance may be caused by the local cable company broadcast.

IGNITION:

Black spots or horizontal streaks may appear, picture may flutter or drift. Usually caused by interference from automobile ignition systems, neon lamps, electric drills and other electric appliances.



GHOSTS:

Ghosts are caused by the television signal following two paths. One is the direct path and the other is reflected from tall buildings, hills or other objects. Changing the direction or position of the antenna may improve the reception.



SNOW:

If your receiver is located in the fringe area of a television station where the signal is weak, your picture may be marred by the appearance of small dots. When the signal is extremely weak, it maybe necessary to install an external antenna to improve the picture.



RADIO FREQUENCY INTERFERENCE:

This interference produces moving ripples or diagonal streaks, and in some cases, causes loss of contrast in the picture.



PICTURE SIZE VARIATION:

A slight picture size variation is normal when you adjust the CONTRAST or BRIGHTNESS setting.

CARE AND MAINTENANCE

To prevent fire or shock hazard, disconnect your unit from the AC power source when cleaning. The exterior of the receiver may be cleaned with a dust cloth. Use caution when cleaning and wiping the plastic parts. Mild soap and a soft, damp cloth may be used.

Specifications

Power Supply:

AC 120V, 60Hz

Power Consumption:

90 W

Dimensions (inch):

20.1(W) X 18. 1(H) X18. 5(D)

Weight(lbs):

48. 5

CRT:

20"

Audio Output:

3W x 2

TV System:

NTSC-M, ATSC

Channel Coverage:

VHF 2-13, UHF 14-69, CATV 1-125, CADTV 1-135, DTV 2-69

Antenna Impedance:

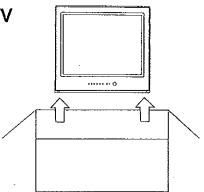
75 ohm

Accessory:

Remote controller x 1

Design and specifications are subject to change without notice.

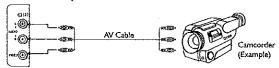
1. Unpack your TV



Lift from the bottom.

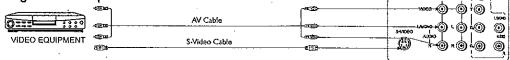
2.Connect your TV

a) Connect Side AV Input Terminals



Cables are often color-coded to connectors. Connect red to red, white to white, yellow to yellow, green to green, blue to blue.

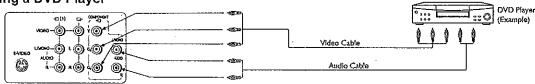
b) Connecting Rear AV Input Terminals



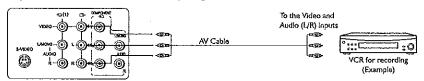
Note:

S-VIDEO input uses the same circuit as VIDEO1, and the S-VIDEO terminal overrides the VIDEO1 terminal. When both S-video and video1 signal are input, the S-video signal is selected and the OSD is "SVIDEO". To view video1 signal, disconnect the S-VIDEO connection.

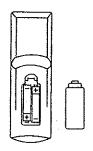
c) Connecting a DVD Player



d) Connecting a VCR to record the TV program



3.Install two size-AAA Batteries in Remote Control



4. Program your TV Settings

- **Our Remote Control, Press Power**
- ○Press Input
- Select the Appropriate TV Input Source
- ∘Enjoy!
- ① For more detailed information, please refer to the operating manual.

EXTENDED SERVICE CONTRACT TERMS AND CONDITIONS

By purchasing this Extended Service Contract you understand that this is a legal contract and you acknowledge that you have had the opportunity to read and that you accept these Terms and Conditions. "Extended Service Contract" and "Terms and Conditions" are collectively referred to as the "Contract".

Throughout this Contract, the words, "we", "us", and "our" (whether or not capitalized) refer to PWWV Services ("PWW"). The words "you" and "your" (whether or not capitalized) refer to the purchaser of this Contract. The Obligor under this Contract in all eligible States/Provinces is PWW. This Contract is administered by PWW.

Product Eligibility: This Contract only covers products purchased from authorized product resellers, and for which you have paid the Contract purchase price. The Contract only covers products used primarily for personal, family or household purposes or in a home office setting, unless specifically noted as a commercial Contract on your original purchase invoice. Coverage commences on the original product purchase invoice and will expire on the date noted on the contract documentation provided by PWWV to you. All original invoices are required for any product repairs, replacements, exchanges or credits.

Manufacturer's Responsibility: This Contract complements but does not replace the manufacturer's warranty. Parts and services covered by the manufacturer's warranty are the responsibility of the manufacturer only. During the manufacturer's warranty coverage period, please contact the manufacturer directly, including for Onsitle/Courier Service. Should you contact us, we will refer you to the applicable manufacturer. During the term of the manufacturer's warranty the Contract provides certain additional benefits for which the manufacturer does not provide coverage.

Coverage: This Contract covers manufacturer's defects in materials and workmanship that are the result of normal usage. Services performed under this Contract will consist of labour and the replacement of parts necessary to restore your product to normal operating condition. All repairs must be approved by us before they are performed. At our option, replacement parts may be new, refurbished or non-original manufacturer's parts that perform to the manufacturer's specifications for the product.

Carry-In Service: All Contract repairs, except those noted in the 'On-Site section below, will be performed at an authorized service centre, on a carry-in basis only. To arrange a repair please call 1-888-474-2314.

On-Site Service: On-site service is included in all Contracts purchased for plasma TV's, LCD sets larger than 30" and tube TV's larger than 27".

Repairs under on-site/courier service will be performed in most cases at your address. You must provide a safe, non-threatening environment as determined solely by our technicians in order to receive on-site service. To arrange for service, call 1-888-474-2314. We will attempt to clarify the problem or diagnose the fault prior to scheduling any in-home service call. We may require that you perform simple repairs with our assistance by telephone support. You may be required to ship your product to an authorized service centre for repair if you live beyond a 60km radius of an authorized service centre or if an authorized service centre or if an authorized service centre or in a service to service centre or the service or necessary transportation to a service location in a commercially reasonable manner (at our discretion). In such cases, we will provide you a full refund of the purchase price of your Contract, less any previous claims paid to you under the Contract.

Accessory Coverage: This Contract provides coverage on a carry-in basis for accessories and peripheral devices ("Accessories") that come with the product in the original manufacturer's package. Examples of Accessories include remote controls. For On-Site/Courier Contracts, if the fault diagnosis determines the problem is related to an Accessory, then a replacement may be mailed to you for self installation. We may request that you first deliver the defective Accessory to an authorized PWW facility.

Telephone Technical Support: Telephone technical support is available on all product covered under this Confract. Please call 1-888-474-2314 and a technical service representative will assist you on the telephone to determine what technical difficulties may exist with the covered product. To the extent that our diagnosis confirms a hardware failure, we will assist you in arranging service for your product.

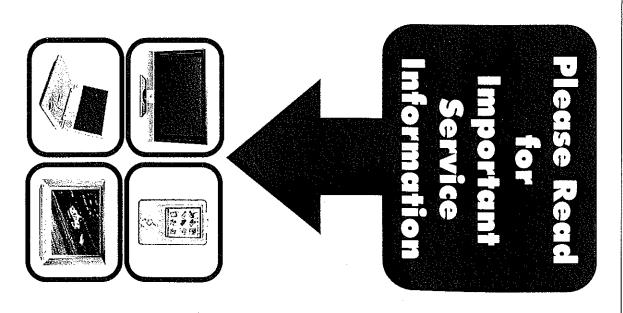
Transferable: This Contract is transferable with the product. The Contract holder must have original documentation to receive service. This documentation will include original proof of purchase and copy of the Contract documents.

General Exclusions: This Contract does NOT cover

- 1. maintenance, repair or replacement necessitated by any causes other than normal usage and operation of the product in accordance with the manufacturer's guidelines, including but not limited to, theft, exposure to weather, moisture and other environmental conditions, negligence, accidental or intentional physical damage. misuse, abuse, unauthorized repairs, improper installation, transportation damage (except damage incurred by authorized shipment of product(s) to and from an authorized servicer), improper equipment modifications, vandalism, spilled liquids, burned phosphor (including image ghosting), pixel burnout not in accordance with the manufacturer's guidelines, or acts of nature or any other peril originating from outside of the product;
- Jost parts (remotes, knobs, etc.) or consumable parts including but not limited to bulbs (including lamps, and optical units), and end-user replaceable batteries.
- unauthorized servicing and transportation charges;
 product(s) with removed or altered serial numbers;
- products used for commercial purposes, used by the public used as a lease or rental or used in common areas in multi-family housing, unless noted specifically as a commercial Contract on the original purchase invoice;
- indirect, consequential or incidental damages, including, but not limited to, loss of profits, loss of data, down-time and charges for time and effort;
- fees related to third party contracts; or
- "no problems found" diagnosis and intermittent errors that cannot be reproduced.

Cancellation: We may cancel this Contract at our option on the basis of (a) fraud or misrepresentation; (b) commercial or rental use of the product (except where permitted by a commercial Contract); or (c) an unauthorized repair of product. You may cancel this Contract for any reason at anytime within thirty (30) days of purchase and receive a full refund of the Contract price, less the cost of claims paid (if any). To receive your refund, you must deliver the cancellation request along with this document and all original invoices to an authorized PWAV office. Please call 1-888-474-2314 for the address of the required location. After thirty (30) days, no refund will apply. No cancellation fee applies to this Contract.

Entire Agreement: Your original sales invoice and these terms and conditions set forth the entire agreement and supersede all prior negotiations, understandings and agreements concerning the subject matter. No oral or written representations, warranties or conditions and no amendment or modification of these terms and conditions will be binding except by a written agreement signed by the part to be bound thereby.



What you find inside can help you to protect your investment!



в иниченеми пети V Services Extended Service

sense to protect your investment by purchasing an electronic products now more than ever it makes With the rising costs of service for consumer Extended PWW Service Contract

PIIIII

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Quick Access to Authorized Replacement Parts

extensive inventory of genuine replacement parts

Our dedicated parts department will resolve any

parts requests as quickly as possible. With our

you can be guaranteed of the craftsmanship and

quality.

Some of the benefits include:

Professionally Trained Customer Support

PWW trained customer service representatives are available to assist you 7 days a week, 6 am to 6pm provides prompt and courteous service. Just call 1-888-474-2314 for PST. Your Service Contract assistance.

This includes remote replacement up to

3 times during the length of the contract

under this Service Contract as well, provided that

they came with the original manufacturer's

Accessories and peripheral devices are covered

Complete Accessory Coverage

Live Product Diagnostics by Phone

the issue with you right over the phone. With a high Contract, our service representatives will diagnose success rate of resolution, our representatives may be able to correct your issue without the need of When covered by the PWW Extended Service service call.

complete refund within 30 days of purchase for the

unused portion of your Service Contract. (Please

see contract terms for details)

you receive from your coverage, you may request

if you are dissatisfied with the quality of protection

PWW Service Money-Back Guarantee

Product Performance Guarantee

for 2 full years of 100% coverage on both parts and The PWW Extended Service Contract covers you terms abor. The contract seamlessly covers the and conditions of your product's original manufacturer's warranty.

you can provide extra value with transfer privileges.

You can renew your contract for your product, and

Renewals / Transfers of Contracts

can increase the resale value of your item! Please

see the contract terms and conditions for details.

Please fill out the attached form and mail in with

payment and a copy of your receipt.

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This offer must be processed within

purchase

0 days of

By transferring the contract to another person you

review all our warranty representatives to ensure product will be serviced by a fully accredited and A PWW service contract also ensures that your high standard of service that we expect for our authorized service provider. We research and clients. Onsite service may also available on Fully Authorized Service Network applicable models. PWW SERVICES - EXTENDED SERVICE CONTRACT

Your First Name (please print): Last Name City Address Apt. No. PostalCode: Prov. Phone Number Model Number Serial Number Here's how I wish to pay for my Service Contract. Check / Money Order Enclosed 20" CRT TV Charge Total amount VISA MasterCard **American Express** Card Number Exp. Date Signature

Please complete and mail within 10 days to:

PWW SERVICES P.O. Box 12222 Mill Creek, WA 98082-0222

WMCDN-15

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YES! I want to receive 2 full years of total product protection with a PWW Services Contract!
Services Contracti

Yes, I have included a copy of my original proof of purchase.

Important: Please provide the exact model number and serial number which can be found in your owner's manual and on your product.



Please note that this product is warrantied against manufacturer's defect for the following periods:

90 Day Warranty

For full details on coverage please refer to your owner's manual.

Please retain both store receipt & this card for warranty validation purposes

Veuillez noter que ce produit Advent est warrantied contre des fabricants désertent

Garantie de 90 jours

Pour les détails complets sur l'assurance référez-vous svp à vos Veuillez maintenir la partie supérieure pour la validation de garantie

If you would like assistance with your product, or to register please contact us toll free at

1-866-447-7462

or visit

www.pwwservice.com

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