Color Television

TP3675

PHILIPS MAGNAVOX

Return your Warranty Registration card today to ensure you receive all the benefits you're entitled to.

Once your PHILIPS MAGNAVOX purchase is registered, you're eligible to receive all the privileges of owning a PHILIPS MAGNAVOX product. So complete and return the Warranty Registration Card enclosed with your purchase at once, and take advantage of these important benefits.

Warranty Verification

Registering your product within 10 days confirms your right to maximum protection under the terms and conditions of your PHILIPS MAGNAVOX warranty.

Owner Confirmation

Your completed Warranty Registration Card serves as verification of ownership in the event of product theft or loss.

Model Registration

Returning your Warranty Registration Card right away guarantees you'll receive all the information and special offers which you qualify for as the owner of your model.

Know these **safety** *symbols*

⚠ This "bolt of lightning" indicates uninsulated material within your unit may cause an electrical shock. For the safety of everyone in your household, please do not remove the product covering.

⚠ The "exclamation point" calls attention to features for which you should read the enclosed literature closely to prevent operating and maintenance problems.

WARNING: TO PREVENT FIRE OR SHOCK HAZARD, DO NOT EXPOSE THIS EQUIP-MENT TO RAIN OR MOISTURE.

CAUTION: To prevent electric shock, match wide blade of plug to wide slot, and fully insert.

ATTENTION: Pour éviter les chocs électriques, introduire la lame la plus large de la fiche dans la borne correspondante de la prise et pousser jusqu'au fond.

CAUTION
RISK OF ELECTRIC SHOCK
DO NOT OPEN

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.

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PHILIPS MAGNAVOX

Congratulations on your purchase, and welcome to the "family!"

REGISTRATION NEEDED
PHILIPS MAGNAVOX
Hurry!
PHILIPS MAGNAVOX
WITHIN 10 DAYS

Dear PHILIPS MAGNAVOX product owner:

Thank you for your confidence in PHILIPS MAGNAVOX. You've selected one of the best-built, best-backed products available today. And we'll do everything in our power to keep you happy with your purchase for many years to come.

As a member of the PHILIPS MAGNAVOX "family," you're entitled to protection by one of the most comprehensive warranties and outstanding service networks in the industry.

What's more, your purchase guarantees you'll receive all the information and special offers for which you qualify, plus easy access to accessories from our convenient home shopping network. And most importantly you can count on our uncompromising commitment to your total satisfaction.

All of this is our way of saying welcome–and thanks for investing in a PHILIPS MAGNAVOX product.

Sincerely,

Robert Minkhorst
President and Chief Executive Officer

P.S. Remember, to get the most from your PHILIPS MAGNAVOX product, you must return your Warranty Registration Card within 10 days. So please mail it to us right now!

For Customer Use

Enter below the Serial number, which is located on the rear of the cabinet. Keep this information for future reference.

Model No. _____

Serial No. _____

PHILIPS MAGNAVOX

Visit our World Wide Web Site at http://www.philips.com

CONTENTS

The energy savings will help reduce the burning of fossil fuels and the related carbon dioxide pollution that contributes to global warming. If every American family replaced their TVs and VCRs with ENERGY STAR® models, it would reduce carbon dioxide emissions by five million tons every year — equivalent to eliminating the pollution from more than one million cars.

By using ENERGY STAR® products, you will save money on your electric bills and use less energy. That makes good economic sense and it's good for our environment.

As an ENERGY STAR® Partner, Philips Magnavox has determined that this product meets the ENERGY STAR® guidelines for energy efficiency. ENERGY STAR® is a U.S. registered trademark.

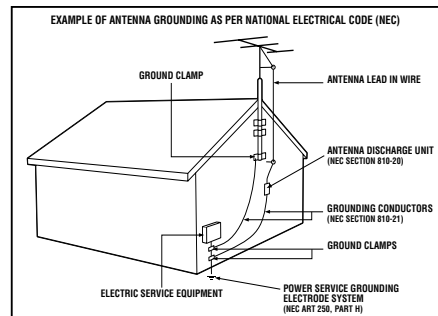SmartLock™ and Smart Window™ are trademarks of Philips Consumer Electronics.

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SAFETY INSTRUCTIONS
Read before operating equipment.

This product was designed and manufactured to meet strict quality and safety standards. There are, however, some installation and operation precautions which you should be particularly aware of.

1. **Read Instructions** - All the safety and operating instructions should be read before the appliance is operated.
2. **Retain Instructions** - The safety and operating instructions should be retained for future reference.
3. **Heed Warnings** - All warnings on the appliance and in the operating instructions should be adhered to.
4. **Follow Instructions** - All operating and use instructions should be followed.
5. **Water and Moisture** - The appliance should not be used near water - for example, near a bathtub, washbowl, kitchen sink, or laundry tub, in a wet basement, near a swimming pool, etc.
6. **Carts and Stands** - The appliance should be used only with a cart or stand that is recommended by the manufacturer.
6A. An appliance and cart combination should be moved with care. Quick stops, excessive force, and uneven surfaces may cause the appliance and cart combination to overturn.
6B. **Tilt/Stability** - All televisions must comply with recommended international global safety standards for tilt and stability properties of its cabinet design.
    • Do not compromise these design standards by applying excessive pull force to the front, or top, of the cabinet, which could ultimately overturn the product.
    • Also, do not endanger yourself, or children, by placing electronic equipment/toys on the top of the cabinet. Such items could unsuspectingly fall from the top of the set and cause product damage and/or personal injury.
7. **Wall or Ceiling Mounting** - The appliance should be mounted to a wall or ceiling only as recommended by the manufacturer.
8. **Ventilation** - The appliance should be situated so that its location or position does not interfere with its proper ventilation. For example, the appliance should not be situated on a bed, sofa, rug, or similar surface that may block the ventilation openings, or placed in a built-in installation, such as a bookcase or cabinet, that may impede the flow of air through the ventilation openings.
9. **Heat** - The appliance should be situated away from heat sources such as radiators, heat registers, stoves, or other appliances (including amplifiers) that produce heat.
10. **Power Sources** - The appliance should be connected to a power supply only of the type described in the operating instructions or as marked on the appliance.
11. **Power-Cord Protection** - Power supply cords should be routed so that they are not likely to be walked on or pinched by items placed upon or against them, paying particular attention to cords and plugs, convenience receptacles, and the point where they exit from the appliance.
12. **Cleaning** - The appliance should be cleaned only as recommended by the manufacturer.
13. **Power Lines** - An outdoor antenna should be located away from power lines.
14. **Outdoor Antenna Grounding** - If an outside antenna is connected to the receiver, be sure the antenna system is grounded so as to provide some protection against voltage surges and built up static charges.

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Section 810 of the National Electrical Code, ANSI/NFPA No. 70-1984, provides information with respect to proper grounding of the mast and supporting structure grounding of the lead-in wire to an antenna discharge unit, size of grounding connectors, location of antenna-discharge unit, connection to grounding electrodes and requirements for the grounding electrode. See illustration at right.

EXAMPLE OF ANTENNA GROUNDING AS PER NATIONAL ELECTRICAL CODE (NEC)

GROUND CLAMP
ANTENNA LEAD IN WIRE
ANTENNA DISCHARGE UNIT (NEC SECTION 810-20)
GROUNDING CONDUCTORS (NEC SECTION 810-21)
GROUND CLAMPS
ELECTRIC SERVICE EQUIPMENT
POWER SERVICE GROUNDING ELECTRODE SYSTEM (NEC ART 250, PART H)

15. **Non-use Periods** - The power cord of the appliance should be unplugged from the outlet when left unused for a long period of time.
16. **Object and Liquid Entry** - Care should be taken so that objects do not fall and liquids are not spilled into the enclosure through openings.
17. **Damage Requiring Service** - The appliance should be serviced by qualified service personnel when:
    A. The power supply cord or the plug has been damaged; or
    B. Objects have fallen or liquid has been spilled into the appliance; or
    C. The appliance has been exposed to rain; or
    D. The appliance does not appear to operate normally or exhibits a marked change in performance; or
    E. The appliance has been dropped or the enclosure has been damaged.
18. **Servicing** - The user should not attempt to service the appliance beyond that described in the operating instructions. All other servicing should be referred to qualified service personnel.
19. **Overloading** - Do not overload wall outlets and extension cords as this can result in a risk of fire or electric shock.
20. **Replacement Parts** - When replacement parts are required, be sure the service technician uses replacement parts specified by the manufacturer or which have the same characteristics as the original part. Unauthorized substitutions may result in fire, electric shock, or other hazards.
21. **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.
22. **Grounding or Polarization** - Your TV operates on 120V/60Hz and has a polarized, alternating-current line plug (a plug having one blade wider than the other). This plug will fit into the power outlet only one way. This is a safety feature. If you are unable to insert the plug fully into the outlet, reverse the plug. If the plug still does not fit, ask your electrician to replace your obsolete outlet. Do not defeat the safety purpose of the polarized plug.
23. **Lightning** - For added protection of this product during a lightning storm, or when it is left unattended and unused for a long time, unplug it from the wall outlet and disconnect the antenna or cable system. This will prevent damage to the product due to lightning and power line surges.
24. **Attachments** - Do not use attachments not recommended by the video product manufacturer. They may be hazardous.

Note to the Cable TV system installer: This reminder is provided to call the Cable TV 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.

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Supplied Accessories
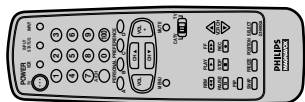
Infrared Remote Control Part Number : 4835-218-37294	Size AA Dry Batteries

Before Operating Your Television

WARNING - FCC Regulations state that any unauthorized changes or modifications to this equipment not expressly approved by the manufacturer could void the user's authority to operate this equipment.

Location
- Any magnetic force may disturb the color picture. Make sure that magnets, electric clocks, toys using magnets or any other magnetic substance, such as iron are kept well away from this TV set.

NOTE:
- Lines and other noise may appear in TV broadcast images when an FM tuner or radio is located near the TV and both radio and TV broadcasts are being received. Should such noise appear, turn off either the TV or the radio.
- If you are listening to an AM broadcast, turn the TV off. AM broadcast signals may not be received due to the interference of the TV.

■ **Before using the television, prepare the Remote Control**

To use the remote control, insert batteries first.

Insert the batteries

- With your thumbnail, pull up the slit as indicated by the arrow to remove the back cover. Insert two batteries (size "AA"). Be sure to match the battery $\oplus/\ominus$ terminals with the $\oplus/\ominus$ marks inside the compartment.

Pull up

Battery
Cover

Antenna Connections

Antennas
- The antenna requirements for good color television reception are more important than those for black & white television reception. For this reason, a good quality outdoor antenna is strongly recommended.

The following is a brief explanation of the type of connections that are provided with the various antenna systems:

1. A 75 ohm system is generally a round cable with F-type connector that can easily be attached to a terminal without tools (not supplied). **The F-type connector should be finger tightened only.**
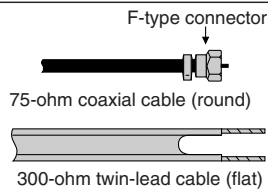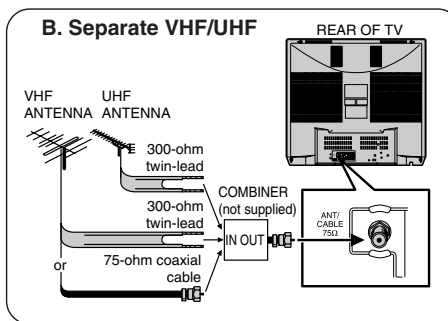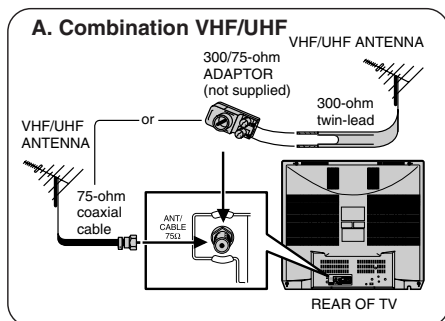
2. A 300 ohm system is a flat "twin-lead" cable that can be attached to a 75 ohm terminal through a 300-75 ohm ADAPTOR (not supplied).

F-type connector

75-ohm coaxial cable (round)

300-ohm twin-lead cable (flat)

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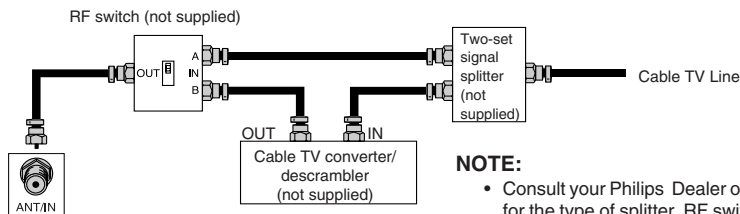# Antenna Connections (Continued)

OUTDOOR ANTENNA CONNECTION

- Use one of the following two diagrams if you connect an outdoor antenna.
  A: Using a VHF/UHF combination outdoor antenna.
  B: Using separate VHF and/or UHF outdoor antenna.
- Connect an outdoor antenna cable lead-in to the COAXIAL CABLE CONNECTOR on the rear of the TV set.

A. Combination VHF/UHF

VHF/UHF ANTENNA

300/75-ohm ADAPTOR (not supplied)

300-ohm twin-lead

VHF/UHF ANTENNA

or

75-ohm coaxial cable

ANT/ CABLE 75Ω

REAR OF TV

B. Separate VHF/UHF

REAR OF TV

VHF ANTENNA   UHF ANTENNA

300-ohm twin-lead

300-ohm twin-lead

COMBINER (not supplied)

IN OUT

ANT/ CABLE 75Ω

or

75-ohm coaxial cable

CABLE TV (CATV) CONNECTION

- A 75 ohm coaxial cable connector is built into the set for easy hookup. When connecting the 75 ohm coaxial cable to the set, screw the 75 ohm cable to the COAXIAL CABLE CONNECTOR.
- Some cable TV companies offer "premium pay channels". Since the signals of these premium pay channels are scrambled, a cable TV converter/descrambler is generally provided to the subscriber by the cable TV company. This converter/descrambler is necessary for normal viewing of the scrambled channels. (Set your TV on channel 3 or 4. Typically one of these channels is used. If this is unknown, consult your cable TV company.) For more specific instructions on installing cable TV, consult your cable TV company. One possible method of utilizing the converter/descrambler provided by your cable TV company is explained below.
  Please note: RF switch equipped with position A/B (not provided) is required.

"A" position on the RF switch (not supplied) : You can view all unscrambled channels using the TV's channel keys.
"B" position on the RF switch (not supplied) : You can view the scrambled channels via the converter/ descrambler using the converter's channel keys.

RF switch (not supplied)

OUT   A   IN   B

Two-set signal splitter (not supplied)

Cable TV Line

OUT   IN

Cable TV converter/ descrambler (not supplied)

ANT/IN

NOTE:
- Consult your Philips Dealer or Service Center for the type of splitter, RF switch, or combiner that might be required.

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Quick Reference Control Operation

■ Location of Controls

Front Panel

A   POWER
Press → On.
Press again → Off.

B   VOLUME UP/DOWN
(+) Increases sound.
(–) Decreases sound.

C   SENSOR AREA FOR REMOTE CONTROL

D   CHANNEL UP/DOWN
(▲) Selects next higher channel.
(▼) Selects next lower channel.
• Press both at same time to access MAIN MENU Screen.

E   VIDEO/AUDIO IN 2 TERMINALS
(VIDEO/AUDIO terminals are also provided on the rear.)
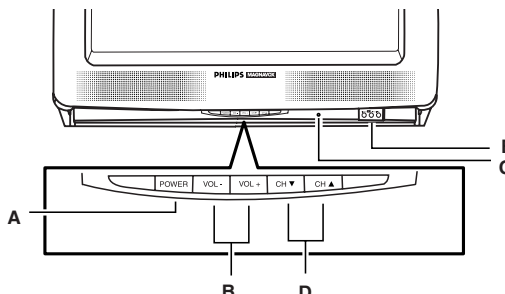
Basic Remote Control Functions

POWER
Press → On.
Press again → Off.

REMOTE KEYPAD
Accesses any channel from keypad.

A/CH
Returns to previous channel.

PERSONAL PREFERENCE
With the Personal Preference buttons, you can program your favorite programs by using the four categories A, B, C and D. The channels can be accessed quickly by using these buttons. (See pages **30 - 31**)

VOLUME UP/DOWN
(+) Increases sound.
(–) Decreases sound.
• In menu mode, changes or selects the TV adjustments.

MENU
Press → Accesses MAIN MENU.
Press again → Exits MAIN MENU.

TV-CATV MODE SELECT SWITCH
In TV position, sends power and channel select commands (Channel up/down and Random Access buttons) to the TV.
In CATV position, sends power and channel select commands to a cable TV converter.

VCR CONTROL
See page **36**.

Infrared Transmitter Window

INPUT STATUS
Press → Displays receiving channel for four seconds.
Press again → Removes display.
• Temporarily displays receiving channel when in Closed Caption mode.

INPUT
Press once → Switch to external video INPUT 1 mode.
Press again → Switch to external video INPUT 2 mode.
Press again → Switch back to the original TV mode.
See page **34**.

ENTER
The "100" button functions as an "ENTER" button when in the VCR mode. (See page **36**)

CHANNEL UP/DOWN
(▲) Selects next higher channel.
(▼) Selects next lower channel.
• See pages **27 - 29** for channel presetting.
• Moves the " ◆ " mark of the MENU screens.

MUTE
Press → Mutes sound.
Press again → Restores sound.
• CLOSED CAPTION appears when sound is muted.

SMART WINDOW ™ PIP FUNCTION
With the VIDEO inputs, you can watch two pictures at the same time. See pages **32 - 33**.

NOTE:
• The above shaded buttons on the Remote Control glow in the dark. To use the glow-in-the-dark display on the remote control, place it under a fluorescent light or other lighting.
• The phosphorescent material contains no radioactive or toxic material, so it is safe to use.
• The degree of illumination will vary depending on the strength of lighting used.
• The degree of illumination will decrease with time and depending on the temperature.
• The time needed to charge the phosphorescent display will vary depending on the surrounding lighting.
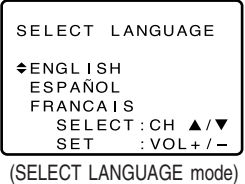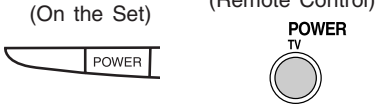• Sunlight and fluorescent lighting are the most effective when charging the display.

9
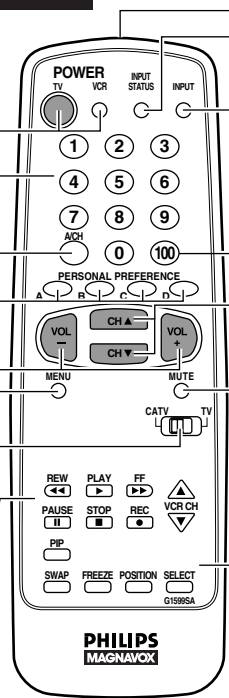
AUTO PRESET during First Power On

■ **When you turn on the TV for the first time, it will automatically memorize the broadcasting channels.**

Please perform the following instructions before you press the power button.

(1) Insert the batteries into the remote control. (See page 7)

(2) Connect the antenna cable to the TV set. (See pages 7 - 8)

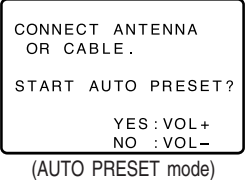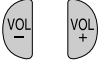**(3) Plug in the AC POWER cord to the wall outlet.**

POWER

VOLUME (+)/(–)

CHANNEL UP (▲)/ DOWN (▼)

MENU
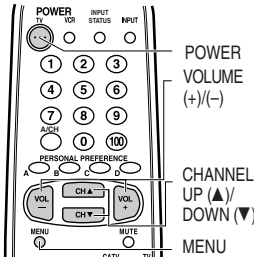
1 Press the **POWER** button on the TV set or on the Remote Control to turn on the TV. The SELECT LANGUAGE mode will be displayed.

(On the Set)   (Remote Control)

POWER TV

POWER

```
SELECT  LANGUAGE

♦ENGLISH
  ESPAÑOL
  FRANCAIS
    SELECT:CH ▲/▼
    SET    :VOL+/−
```
(SELECT LANGUAGE mode)

2 Press **CH UP (▲)** or **DOWN (▼)** to select "ENGLISH", "SPANISH (ESPAÑOL)" or "FRENCH (FRANÇAIS)".

CH▲

CH▼

```
SELECT  LANGUAGE

♦ENGLISH
  ESPAÑOL
  FRANCAIS
    SELECT:CH ▲/▼
    SET    :VOL+/−
```

3 Press **VOL (+)** or **(–)** to access the AUTO PRESET mode.

VOL −

VOL +

```
CONNECT  ANTENNA
 OR CABLE.

START  AUTO PRESET?

    YES:VOL+
    NO  :VOL−
```
(AUTO PRESET mode)

4 Press **VOL (+)**.
The tuner will automatically search for the broadcasting and cable TV channels. (The CH No. will automatically increase when it appears.)

If you want to stop the AUTO PRESET process once it has started, press **VOL (–)** and it will be canceled.

If you want to PRESET again, please refer to page **26** on AUTO PRESET.

To cancel AUTO PRESET
Press **VOL (–)**.

VOL +

```
 PLEASE  WAIT

AUTO  PROGRAMMING

18
       STOP:VOL−
```
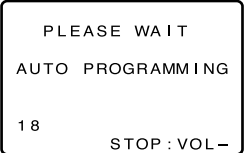
5 Once AUTO PRESET is completed, the lowest channel number memorized will be displayed.

2

NOTE:
• If AUTO PRESET does not memorize all the channels in your region, please refer to pages **28 - 29** for more information on manually memorizing the channels using CHANNEL MEMORY.
• It may be difficult to PRESET all channels in an area when the broadcasting signals are weak or multiple stations are received on the same channel. Please refer to pages **28 - 29** for more information on manually memorizing additional channels using CHANNEL MEMORY.

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Accessing the MAIN MENU screen without Remote Control

- If you misplaced your Remote Control you can still access most settings via the MAIN MENU screen when you press both **CH UP (▲)** and **DOWN (▼)** on the TV set.
- Some features of your TV set will not be accessible without the Remote Control. If you lost your Remote Control, contact a Philips Magnavox Authorized Servicer for a replacement.

(On the set)

CH ▼   CH ▲
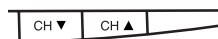
Language

■ **The language for the ON SCREEN DISPLAY can be set to ENGLISH, SPANISH or FRENCH.**
■ **Setting the ON SCREEN DISPLAY Language.**

1 Press **MENU** to access MAIN MENU screen.

MENU

```
⬍TIMER
 VIDEO ADJUST
 AUDIO SELECT
 CLOSED CAPTION
 PARENT CONTROL
 ENERGY SAVE
 SET UP
```
(MAIN MENU screen)

2 Press **CH UP (▲)** or **DOWN (▼)** to move the "⬍" mark to "SET UP".

CH▲
CH▼

```
 TIMER
 VIDEO ADJUST
 AUDIO SELECT
 CLOSED CAPTION
 PARENT CONTROL
 ENERGY SAVE
⬍SET UP
```

3 Press **VOL (+)** or **(–)** to access SET UP mode, then press **CH UP (▲)** or **DOWN (▼)** to move the "⬍" mark to "LANGUAGE".

VOL –   VOL +   →   CH▲
CH▼
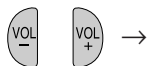
```
 BLUE SCREEN
 PERSONAL PREF.
 UNIVERSAL PLUS
⬍LANGUAGE
 CH SETTING
```
(MAIN MENU screen)

4 Press **VOL (+)** or **(–)** to access LANGUAGE change mode.

VOL –   VOL +

```
 LANGUAGE

⬍ENGLISH
 ESPAÑOL
 FRANCAIS
```
(LANGUAGE change mode)

5 Press **CH UP (▲)** or **DOWN (▼)** to select "ENGLISH", "SPANISH (ESPAÑOL)" or "FRENCH (FRANÇAIS)".

CH▲
CH▼

```
 IDIOMA

↧ENGLISH
⬍ESPAÑOL
↥FRANCAIS
```

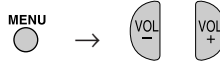**6** Press **MENU** to exit.

MENU

11

Sleep Timer

■ **You can set the number of minutes for your TV to automatically turn off.**

1 Press *MENU* to access MAIN MENU screen.

2 Press *VOL (+)* or *(–)* to access TIMER SET mode.

MENU → VOL – VOL +

```
♦TIMER
 VIDEO ADJUST
 AUDIO SELECT
 CLOSED CAPTION
 PARENT CONTROL
 ENERGY SAVE
 SET UP
```
(MAIN MENU screen)
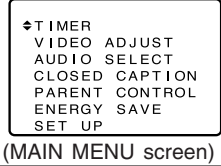
3 Press *VOL (+)* or *(–)* to set a sleep time of 30, 60, 90 or 120 minutes.

4 Press *MENU* to exit.

VOL – VOL + → MENU

```
SLEEP TIMER
        120 REMAIN
```
(TIMER SET mode)
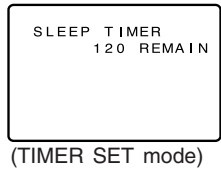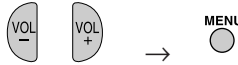
NOTE:
• To turn off the Sleep Timer, repeat the above SLEEP TIMER steps and select "– – – REMAIN" during step **3**.
• While Sleep Timer is active, the time remaining will be briefly displayed on-screen at regular intervals or when the remote's Display key is pressed.

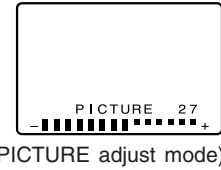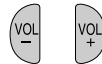## Video Adjust

Description of Adjustment Items

Selected item	VOL UP (+) button	VOL DOWN (–) button
PICTURE	To increase contrast	To decrease contrast
TINT	To make skin tones greenish	To make skin tones purplish
COLOR	To increase color intensity	To decrease color intensity
BRIGHT	To increase brightness	To decrease brightness
SHARP	To increase sharpness	To decrease sharpness
FAVORITE COLOR	To choose a RED, BLUE or STANDARD COLOR TONE.	
RESET	To return all adjustments to factory preset levels.	

VOLUME (+)/(–)

CHANNEL UP (▲)/ DOWN (▼)
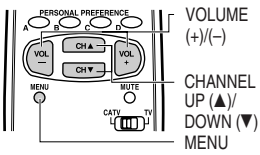
MENU

1 Press *MENU* to access MAIN MENU screen.

2 Press *CH UP (▲)* or *DOWN (▼)* to move the "♦" mark to "VIDEO ADJUST".

MENU → CH▲ CH▼

```
 TIMER
♦VIDEO ADJUST
 AUDIO SELECT
 CLOSED CAPTION
 PARENT CONTROL
 ENERGY SAVE
 SET UP
```
(MAIN MENU screen)
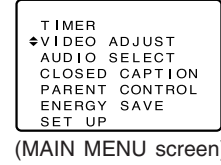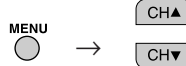
3 Press *VOL (+)* or *(–)* to access PICTURE adjust mode.

VOL – VOL +

```
     PICTURE  27
–▮▮▮▮▮▮▮▮▮▮▪▪▪▪▪+
```
(PICTURE adjust mode)

4 Press *CH UP (▲)* or *DOWN (▼)* to select the desired mode. (Refer to the diagram below.)

PICTURE ⇄ TINT ⇄ COLOR ⇄ BRIGHT

RESET ⇄ FAVORITE COLOR ⇄ SHARP

←: CH UP (▲)   →: CH DOWN (▼)

CH▲ CH▼

12

Video Adjust (Continued)

5 Press *VOL (+)* or *(–)* to adjust the setting.

```
                PICTURE   27
           ▄▄▄▄▄▄▄▄▄▄▄▄▄▄▄▄▄▄▄▄
         –                        +
```

VOL UP (+)
increase contrast

VOL DOWN (–)
decrease contrast
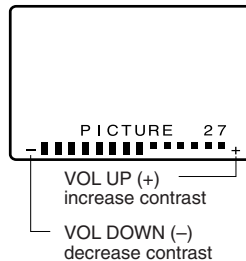
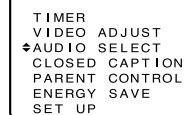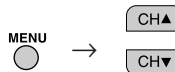**6** Repeat steps **4 - 5** to adjust other settings.

7 Press *MENU* to exit.

MENU

Audio Select

■ **MTS (MULTICHANNEL TV SOUND)**
  This circuit allows reception of stereo or bilingual TV sound.
■ **INTERNAL SPEAKER SWITCH**
  This function turns the TV's internal speakers "ON" or "OFF" when listening to sound from external speakers by using the AUDIO OUTPUT JACKS on page 35.

1 Press *MENU* to access MAIN MENU screen.

2 Press *CH UP (▲)* or *DOWN (▼)* to move the " ⬍ " mark to "AUDIO SELECT".
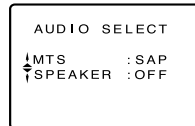
MENU → CH▲ CH▼

```
TIMER
VIDEO ADJUST
⬍AUDIO SELECT
CLOSED CAPTION
PARENT CONTROL
ENERGY SAVE
SET UP
```
(MAIN MENU screen)

3 Press *VOL (+)* or *(–)* to access AUDIO SELECT mode.

VOL– VOL+
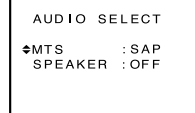
```
AUDIO SELECT

⬍MTS      :SAP
 SPEAKER  :OFF
```
(AUDIO SELECT mode)

4 Press *CH UP (▲)* or *DOWN (▼)* to move the " ⬍ " mark to "MTS" or "SPEAKER".

CH▲ CH▼

```
AUDIO SELECT

 MTS      :SAP
⬍SPEAKER  :OFF
```

5 Press *VOL (+)* or *(–)* to change the AUDIO SELECT setting.

MTS   SPEAKER
┌─ STEREO ─┐   ON
│   ↑ ↓   │   ↑ ↓
│   SAP   │   OFF
│   ↑ ↓   │
└─ MONO ───┘

VOL– VOL+
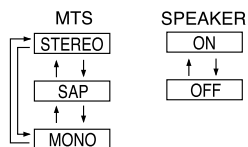
```
AUDIO SELECT

⬍MTS      :STEREO
 SPEAKER  :OFF
```
(AUDIO SELECT setting)

6 Press *MENU* to exit.

MENU

13

Audio Select (Continued)

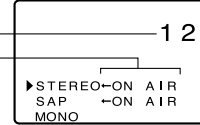**Example:**

Actual screen indicating ON AIR when receiving STEREO broadcasts.

Actual channel number

"← ON AIR" will appear next to STEREO or
SAP when receiving STEREO or SAP
broadcasts.

```
                                    1 2

    ▶STEREO←ON AIR
     SAP    ←ON AIR
     MONO
```
(Channel call on screen)

■ **You can enjoy Hi-Fi stereo sound or SAP broadcasts where available.**
  • Stereo broadcasts
    Live television transmission of sports, shows, concerts, etc. can be received in dynamic stereo sound.
  • SAP broadcasts
    Television broadcast can be received with either MAIN or SAP sound.
    MAIN sound: The normal program soundtrack. (Monaural or stereo where available.)
    SAP sound: Second language, supplementary commentaries, etc. (SAP sound is monaural.)

■ **If stereo sound is difficult to hear.**
  • You can obtain clearer sound by manually switching to fixed monaural mode.

NOTE:
  • Once MONO mode is selected, the TV sound remains monaural even if the TV set receives a stereo broadcast. You must switch the mode back to STEREO if you want to hear stereo sound again.
  • Selecting MTS while in the INPUT mode does not change the type of sound; in this case, sound is determined by the video source.
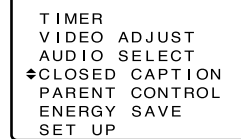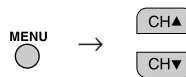
Closed Caption

■ **HOW TO SET CLOSED CAPTION**
  • Your TV is equipped with an internal Closed Caption decoder. "Closed Caption" is a system which allows you to view conversations, narration, and sound effects in TV programs and home videos as subscript on your TV screen as shown on the right.
  • Not all the programs and videos will offer closed caption. Please look for the " CC " symbol to ensure that captions will be shown.
  • Closed Caption broadcast can be viewed in two modes: CAPTION and TEXT. For each mode, two channels are available, CH1 and CH2:

  The [CAPTION] mode subscripts dialogues and commentaries of TV dramas and news programs while allowing clear view of the picture. The [TEXT] mode displays over the picture other various information (such as TV program schedule, weather forecast, etc.) that is independent of the TV programs.

Good morning. How are you?

VOLUME (+)/(–)

CHANNEL UP (▲)/ DOWN (▼)

MENU

---
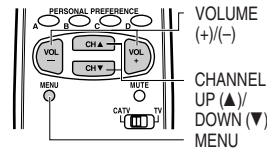
1 Press **MENU** to access MAIN MENU screen.

2 Press **CH UP (▲)** or **DOWN (▼)** to move the "✦" mark to "CLOSED CAPTION".

MENU → CH▲ CH▼

```
  TIMER
  VIDEO ADJUST
  AUDIO SELECT
 ✦CLOSED CAPTION
  PARENT CONTROL
  ENERGY SAVE
  SET UP
```
(MAIN MENU screen)

---

3 Press **VOL (+)** or **(–)** to access CLOSED CAPTION setting mode.

VOL –   VOL +

```
  CLOSED  CAPTION

 ✦MODE    :CAPTION
  DATA    :CH 1
```
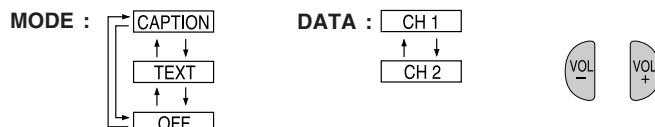(CLOSED CAPTION setting mode)

14
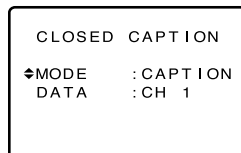
Closed Caption (Continued)

4 Press **CH UP (▲)** or **DOWN (▼)** to move the "⬍" mark to either "MODE" or "DATA".

```
CLOSED  CAPTION

 MODE     :CAPTION
⬍DATA     :CH 1
```

5 Press **VOL (+)** or **(–)** to change the CLOSED CAPTION setting.

MODE : → CAPTION
    ↑ ↓
      TEXT
    ↑ ↓
      OFF

DATA : CH 1
    ↑ ↓
      CH 2

VOL –   VOL +

```
CLOSED  CAPTION

⬍MODE     :CAPTION
 DATA     :CH 1
```

6 Press **MENU** to exit.

MENU

NOTE:
- If a broadcast has CLOSED CAPTION and the **MUTE** button is pressed, the set enters [CAPTION] mode automatically. Pressing **MUTE** again will return the set to its previous condition.
- Closed Caption may malfunction (white blocks, strange characters, etc.) if signal conditions are poor or if there are problems at the broadcast source. This does not necessarily indicate a problem with your set.
- If any button is pressed to call up the ON SCREEN DISPLAY while viewing a CLOSED CAPTION broadcast, the closed captions will disappear momentarily.
- When viewing in TEXT mode, if no TEXT broadcast is being received, for some programs the screen may become dark and blank. Should this occur, set the Closed Caption mode to "OFF".

Parent Control (SmartLock™ V-CHIP Operation)

■ **SmartLock™ V-CHIP**
- This function allows you to restrict TV programs and also allows you to control TV usage based on FCC data. This function is to prevent your children from watching violence or sexual scenes that may be harmful.
- Restriction of TV programs includes two characters that contain information about the program's MPAA rating and the TV Parental Guidelines. MPAA is restricted by age. TV Parental Guidelines are restricted by age and contents.
- Since a TV program may use either the MPAA rating or the TV Guidelines you should adjust both for complete control.

[1] MPAA RATING

RATING		
age base	G	GENERAL AUDIENCES. All ages admitted.
	PG	PARENTAL GUIDANCE SUGGESTED. Some material may not be suitable for children.
	PG-13	PARENTS STRONGLY CAUTIONED. Some material may be inappropriate for children under 13.
	R	RESTRICTED. Under 17 requires accompanying parent or adult guardian.
	NC-17	NO ONE 17 AND UNDER ADMITTED.
	X	X Rating is an older rating that is unified with NC-17 but may be encoded on older movie's data.

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Parent Control (SmartLock™ V-CHIP Operation Continued)

• **MPAA RATING (Example)**

Example 1.
"PG-13" in the age-based rating is blocked. This will automatically block the high ratings "R", "NC-17" and "X" also.

1. User setting

G	–––––
PG	–––––
PG-13	BLOCK
R	BLOCK
NC-17	BLOCK
X	BLOCK

2. Block table

age base

G	not to block
PG	not to block
PG-13	Select block
R	auto-block
NC-17	auto-block
X	auto-block

Example 2.
"R" in the age-based rating is blocked. This will automatically block the high ratings "NC-17" and "X" also.

1. User setting

G	–––––
PG	–––––
PG-13	–––––
R	BLOCK
NC-17	BLOCK
X	BLOCK

2. Block table

age base

G	not to block
PG	not to block
PG-13	not to block
R	Select block
NC-17	auto-block
X	auto-block

NOTE:

• MPAA RATING is only age-based ratings.

[2] TV PARENTAL GUIDELINES

	RATING	⇐ Content Base ⇒				
		D (Sexually Suggestive Dialog)	**L** (Adult Language)	**S** (Sexual Situation)	**V** (Violence)	**FV** (Fantasy Violence)
Age Base ⇑ ⇓	**TV-Y** (All children)	☑	—	—	—	—
	TV-Y7 (Direct to Older Children)	☑	—	—	—	☑
	TV-G (General Audience)	☑	—	—	—	—
	TV-PG (Parental Guidance Suggested)	☑	☑	☑	☑	☑	—
	TV-14 (Parents Strongly Cautioned)	☑	☑	☑	☑	☑	—
	TV-MA (Mature Audience Only)	☑	—	☑	☑	☑	—

☑ : Content Rating can be set.
— : Content Rating can not be set (not normally broadcast by TV Station).

• **TV-PARENTAL GUIDELINES (Example)**

Example 1.1 : Age-Based setting
Go through all select ratings and select view ("– – – –") for "AGE". This will automatically unblock everything.

```
        AGE  D  L  S  V  FV
TV-Y     □   –  –  –  –  –      □: VIEW
TV-Y7    □   –  –  –  –  □      ☑: BLOCK
TV-G     □   –  –  –  –  –
TV-PG    □   □  □  □  □  –
▼ TV-14  □   □  □  □  □  –
✦ TV-MA  □   –  □  □  □  –

        MENU : RETURN
```

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Parent Control (SmartLock™ V-CHIP Operation Continued)

Example 1.2 : Age-Based setting

For "TV-G" select "BLOCK" for "AGE". This will automatically block the higher age ratings "TV-PG", "TV-14", "TV-MA" and "TV-G".

Furthermore, the Content Ratings "D", "L", "S", "V", "FV" are automatically blocked as well for "TV-PG", "TV-14" and "TV-MA" in addition to "TV-G".

	AGE	D	L	S	V	FV	
TV-Y	□	–	–	–	–	–	□ : VIEW
TV-Y7	□	–	–	–	–	□	☑ : BLOCK
↕ TV-G	☑	–	–	–	–	–	
TV-PG	☑	☑	☑	☑	☑	–	
TV-14	☑	☑	☑	☑	☑	–	
TV-MA	☑	–	☑	☑	☑	–	

MENU : RETURN

Example 2.1 : Content-Based setting

For "TV-PG", "TV-14" and "TV-MA" select view ("– – – –") for each Content Rating but leave "AGE" blocked for "TV-PG" and "TV-14" only.

	AGE	D	L	S	V	FV	
TV-Y	□	–	–	–	–	–	□ : VIEW
TV-Y7	□	–	–	–	–	□	☑ : BLOCK
TV-G	□	–	–	–	–	–	
TV-PG	☑	□	□	□	□	–	
TV-14	☑	□	□	□	□	–	
↕ TV-MA	□	–	□	□	□	–	

MENU : RETURN

Example 2.2 : Content-Based setting

For "TV-PG", select "BLOCK" for only "V" (Violence). This will automatically block the higher ratings "TV-14-V" and "TV-MA-V" ("TV-14" and "TV-MA" for Violence content only). Please note that with these settings, blocking does NOT occur if a program is rated only "TV-MA"; it must be rated "TV-MA-V" to be blocked.

	AGE	D	L	S	V	FV	
TV-Y	□	–	–	–	–	–	□ : VIEW
TV-Y7	□	–	–	–	–	□	☑ : BLOCK
TV-G	□	–	–	–	–	–	
TV-PG	□	□	□	☑	□	–	
TV-14	☑	□	□	☑	□	–	
↕ TV-MA	□	–	□	☑	□	–	

MENU : RETURN

Example 3 : Reset an Age-Based setting

For "TV-14", select "BLOCK" for "AGE". This will again automatically block the Content Ratings "D", "L", "S", "V", "FV" for "TV-MA" in addition to "TV-14".

Please note that the lower age rating "TV-PG" did not change from its previous settings.

	AGE	D	L	S	V	FV	
TV-Y	□	–	–	–	–	–	□ : VIEW
TV-Y7	□	–	–	–	–	□	☑ : BLOCK
TV-G	□	–	–	–	–	–	
TV-PG	☑	□	□	□	□	–	
↕ TV-14	☑	☑	☑	☑	☑	–	
TV-MA	☑	–	☑	☑	☑	–	

MENU : RETURN

NOTE:

• Content Ratings can be modified but only in the combinations indicated by "☑" in the table on page **16**.

• Changing a lower age-rating's content setting to "BLOCK" automatically changes the same higher age-rating's content setting to "BLOCK" regardless of their previous settings.

• Changing a lower rating's "AGE" setting to "BLOCK" automatically changes all higher ratings to "BLOCK" regardless of their previous settings.

• Any rating's "AGE" set to view ("– – – –") must have its content settings individually set.
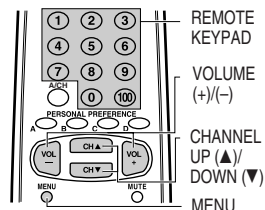
[3] ADDITIONAL MODE

Besides the above "MPAA RATINGS" and "TV PARENTAL GUIDELINES," new ratings systems data can be downloaded when they become available. (See pages **21 - 22**.)

Parent Control (SmartLock™ V-CHIP Operation Continued)

■ HOW TO SET SmartLock™ V-CHIP

REMOTE KEYPAD

VOLUME (+)/(−)

CHANNEL UP (▲)/ DOWN (▼)

MENU

[1] MPAA RATING

1 Press **MENU** to access MAIN MENU screen.

MENU

```
↕TIMER
 VIDEO ADJUST
 AUDIO SELECT
 CLOSED CAPTION
 PARENT CONTROL
 ENERGY SAVE
 SET UP
```
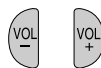
(MAIN MENU screen)

2 Press **CH UP (▲)** or **DOWN (▼)** to move the " ↕ " mark to "PARENT CONTROL".

CH▲

CH▼

```
 TIMER
 VIDEO ADJUST
 AUDIO SELECT
 CLOSED CAPTION
↕PARENT CONTROL
 ENERGY SAVE
 SET UP
```

3 Press **VOL (+)** or **(−)** to access PARENT CONTROL mode, then press **VOL (+)** or **(−)** to access SmartLock™ V-CHIP select mode.
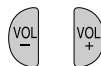
VOL −

VOL +

```
 PARENT CONTROL

↕V−CHIP BLOCK
 VIEW TIMER
```

(PARENT CONTROL mode)

4 Press **VOL (+)** or **(−)** to access "MPAA RATING."
(The secret No. for SmartLock™ V-CHIP/VIEW TIMER is commonly used. If this secret No. is set by VIEW TIMER, the "INPUT SECRET NO." will be displayed.
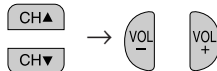
VOL −

VOL +

```
↕MPAA
 TV GUIDELINES


 DOWNLOAD:OFF
 STATUS   :OFF
```

(V-CHIP select mode)

5 Press **CH UP (▲)** or **DOWN (▼)** to move the " ↕ " mark to "PG", then press **VOL (+)** or **(−)** to select BLOCK. If you set "PG" to BLOCK, "PG-13", "R", "NC-17" and "X" are automatically blocked.

CH▲

CH▼

→

VOL −

VOL +

```
G        :––––––
↕PG       :BLOCK
 PG–13    :BLOCK
 R        :BLOCK
 NC–17    :BLOCK
 X        :BLOCK

      MENU:RETURN
```

6 Repeat pressing **MENU** to return to SmartLock™ V-CHIP select mode exit.

MENU

NOTE:

Example:

• If you set "G" to BLOCK, all ratings are automatically blocked.
• If you set "X" to BLOCK, "G", "PG", "PG-13", "R" and "NC-17" are not blocked.

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Parent Control (SmartLock™ V-CHIP Operation Continued)

[2] TV GUIDELINES

1 Repeat steps **1 - 3** of **[1] MPAA RATING**.

2 Press **CH UP (▲)** or **DOWN (▼)** to move the "⬍" mark to "TV GUIDELINES".

CH▲

CH▼

```
MPAA
⬍TV GUIDELINES


DOWNLOAD : OFF
STATUS    : OFF
```

**3** Press **VOL (+)** or **(–)** to access TV GUIDELINES mode.

VOL –   VOL +
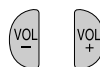
4 To change CONTENT SETTING, press **CH UP (▲)** or **DOWN (▼)** to move the "⬍" to the desired rating and then press **VOL (+)** or **(–)** to select.

CH▲
CH▼   →   VOL –   VOL +

	AGE	D	L	S	V	FV	
TV-Y	☑	–	–	–	–	–	☐ : VIEW
⬍ TV-Y7	☑	–	–	–	–	☑	☑ : BLOCK
TV-G	☑	–	–	–	–	–	
TV-PG	☑	☑	☑	☑	☑	–	
TV-14	☑	☑	☑	☑	☑	–	
TV-MA	☑	–	☑	☑	☑	–	
	MENU : RETURN						

(TV GUIDELINES mode)

5 Press **CH UP (▲)** or **DOWN (▼)** to move the "⬍" to the desired content and then press **VOL (+)** or **(–)** to select either "BLOCK" or view (" - - - - ").

CH▲
CH▼   →   VOL –   VOL +
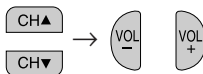
```
TV-PG
⬍ AGE     BLOCK
  D       — — — —
  L       — — — —
  S       — — — —
  V       — — — —
  FV      BLOCK

        MENU : RETURN
```

(CONTENT SETTING mode)

6 Press **MENU** to return to TV GUIDES mode.

MENU

	AGE	D	L	S	V	FV	
TV-Y	☑	–	–	–	–	–	☐ : VIEW
⬍ TV-Y7	☐	–	–	–	–	☐	☑ : BLOCK
TV-G	☑	–	–	–	–	–	
TV-PG	☑	☑	☑	☑	☑	–	
TV-14	☑	☑	☑	☑	☑	–	
TV-MA	☑	–	☑	☑	☑	–	
	MENU : RETURN						

7 Repeat steps **4 - 5** until all ratings and their contents are set.

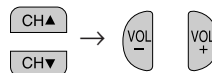**8** When done, press **MENU** to exit.

MENU

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Parent Control (SmartLock™ V-CHIP Operation Continued)

[3] ACTIVATE TO TURN ON SmartLock™ V-CHIP BLOCK

1 Press **CH UP (▲)** or **DOWN (▼)** to move the " ⬍ " mark to "STATUS", then press **VOL (+)** or **(–)** to activate the SmartLock™ V-CHIP BLOCK. (If STATUS is OFF, V-CHIP BLOCK will not be operated.)

```
MPAA
 TV GUIDELINES


 DOWNLOAD:OFF
⬍STATUS   :ON
```

2 Press **MENU**, then "INPUT SECRET No." will be displayed.

```
INPUT  SECRET  No.

    _  _  _  _
```

3 Enter the 4-digit SECRET No. using the **REMOTE KEYPAD**.
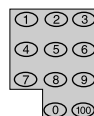
```
INPUT  SECRET  No.

    1  2  3  4
```

4 Press **MENU** and SECRET No. is registered.

■ **To cancel the SmartLock™ V-CHIP BLOCK screen while SmartLock™ V-CHIP BLOCK has been activated.**

1 "V-CHIP HAS BEEN ACTIVATED" will be displayed if you watch the program with Program Rating data the same as you configured.

```
                  23
V-CHIP  HAS  BEEN
      ACTIVATED

      TV-Y7
      FV
```

NOTE:
• "V-CHIP HAS BEEN ACTIVATED" will not be displayed if STATUS is not configured to "ON".

2 Press **MENU**, then "INPUT SECRET No." will be displayed.

```
INPUT  SECRET  No.

    _  _  _  _
```

3 Enter the 4-digit SECRET No. using the **REMOTE KEYPAD**, then SmartLock™ V-CHIP BLOCK will temporarily be canceled. If the wrong SECRET No. is chosen, "SECRET No. IS INCORRECT" will be displayed. Input the SECRET No. again in this case.
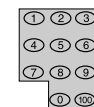
```
INPUT  SECRET  No.

    *  *  *  *
```

NOTE:
• If you change Power from OFF to ON, then SmartLock™ V-CHIP BLOCK will be activated ON again.

20

Parent Control (SmartLock™ V-CHIP Operation Continued)

■ **To change the SmartLock™ V-CHIP BLOCK setting. (Secret No. is registered.)**

1 Repeat steps **1** - **3** of **[1] MPAA RATING**, then "INPUT SECRET No." will be displayed.

```
INPUT  SECRET  No.

    _   _   _   _
```

2 Enter the 4-digit SECRET No. using the ***REMOTE KEYPAD*** and the V-CHIP select mode will be displayed. Repeat configuration of the V-CHIP BLOCK.

```
INPUT  SECRET  No.

    *   *   *   *
```

■ **If you intend to change or have forgotten your Secret No., clear the original Secret No. and set up a new one.**

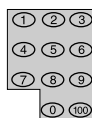**1** Repeat steps **1** - **3** of **[1] MPAA RATING**, or **1** - **2** of **[■ To cancel the V-CHIP BLOCK screen while V-CHIP BLOCK has been activated]**, then "INPUT SECRET No." will be displayed.

2 Press and hold both ***VOL (+)*** and ***CH DOWN (▼)*** on the TV set simultaneously until the message "INPUT SECRET No." disappears.

(On the set)

| VOL + | CH ▼ |
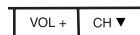
3 Press ***MENU*** two times to exit.

MENU

[3]-A. Additional mode (DOWNLOAD)
There will be an additional new rating system. In that case, please set up as follows. Subsequently the new rating system will set up automatically.

1 Repeat steps **1** - **3** of **[1] MPAA RATING**.
2 Press ***CH UP (▲)*** or ***DOWN (▼)*** to move the " ♦ " mark to "DOWNLOAD".

CH▲

CH▼

```
MPAA
 TV  GUIDELINES


♦DOWNLOAD:OFF
 STATUS    :OFF
```

3 Press ***VOL (+)*** or ***(–)*** to "DOWNLOAD : ON".

VOL –   VOL +

```
MPAA
 TV  GUIDELINES


♦DOWNLOAD:ON
 STATUS    :OFF
```

4 Repeat pressing ***MENU*** to exit.

MENU

21

Parent Control (SmartLock™ V-CHIP Operation Continued)

■ **DOWNLOAD SmartLock™ V-CHIP DATA**

REMOTE
KEYPAD

VOLUME
(+)/(−)

CHANNEL
UP (▲)/
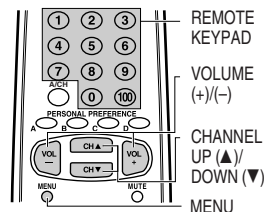DOWN (▼)

MENU

1 If you watch the program with "New Rating System Data", DOWNLOAD screen will be displayed.

```
PLEASE WAIT

NOW DOWNLOADING
   V-CHIP DATA
```
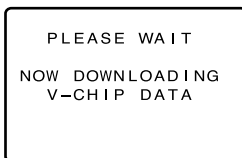
(DOWNLOAD screen)

2 DOWNLOAD screen will disappear, if DOWNLOAD is finished.

NOTE:
• DOWNLOAD would not be started if you don't watch the program with "New Rating System Data".

[3]-B. Additional mode (Example)

1 Repeat steps **1 - 2** of **[3] Additional mode**.

2 Press **CH UP (▲)** or **DOWN (▼)** to move the " ⬍ " mark to "Cdn. English Ratings", then press **VOL (+)** or **(−)**.

CH▲
CH▼
→ VOL − VOL +

```
MPAA
 TV GUIDELINES
⬍Cdn. English Ratings
 Cdn. French Ratings



 DOWNLOAD:ON
 STATUS  :ON
```
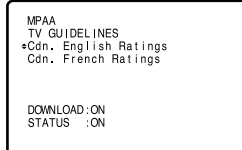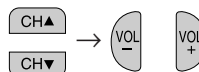
(After downloading the rating data)

3 You can select "BLOCK" or "– – – – –" (view) from each RATING mode by pressing **CH UP (▲)** or **DOWN (▼)** and **VOL (+)** or **(−)**.

CH▲
CH▼
→ VOL − VOL +

```
⬍C        :―――――
 C8+      :BLOCK
 G        :―――――
 PG       :BLOCK
 14+      :―――――
 18+      :BLOCK

 INDIVIDUAL BLOCK

    MENU:RETURN
```
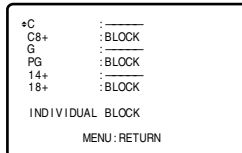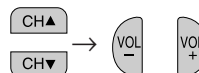
(ENGLISH INDIVIDUAL BLOCK mode)

4 You can select "BLOCK" or "– – – – –" (view) from each RATING mode by pressing **CH UP (▲)** or **DOWN (▼)** and **VOL (+)** or **(−)** if you select "Cdn. French Ratings" in step **2**.

CH▲
CH▼
→ VOL − VOL +

```
⬍G        :―――――
 8+       :BLOCK
 13+      :―――――
 16+      :BLOCK
 18+      :―――――

 INDIVIDUAL BLOCK

    MENU:RETURN
```
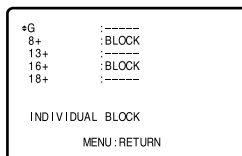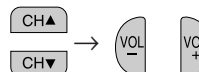
(FRENCH INDIVIDUAL BLOCK mode)

NOTE:
• **In additional mode**
  Including two types (English mode, French mode), altogether you are able to download four kinds of mode.

22

Parent Control (VIEW TIMER)

■ **VIEW TIMER**

This function allows you to restrict TV viewing time and also allows you to control TV usage. This function is to prevent your children from watching too much TV.

VIEWING TIME (an accumulative timer: counts only the time duration acquired while the TV is on.)

- VIEWING TIME can be set from 30M (30 minutes) to 10H00M (10 hours) in 30 minutes intervals.
  OFF TIME (Restricts TV watching after the VIEWING TIME reaches zero.)
- OFF TIME can be set from 30M (30 minutes) to 10H00M (10 hours) in 30 minutes intervals.
  STATUS (ON/OFF setting of VIEW TIMER)

```
VIEW TIMER

♦VIEWING TIME
    --H --M
 OFF TIME
    --H --M
 STATUS:OFF
```

■ **How to set VIEW TIMER.**

1 Press **MENU** to access MAIN MENU screen.

2 Press **CH UP (▲)** or **DOWN (▼)** to move the " ♦ " mark to "PARENT CONTROL".

MENU ○ → CH▲ CH▼

```
TIMER
VIDEO ADJUST
AUDIO SELECT
CLOSED CAPTION
♦PARENT CONTROL
ENERGY SAVE
SET UP
```
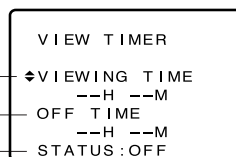(MAIN MENU screen)
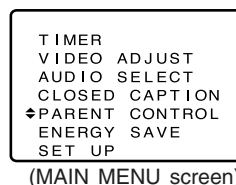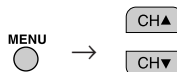
3 Press **VOL (+)** or **(–)** to access PARENT CONTROL mode.

4 Press **CH UP (▲)** or **DOWN (▼)** to move the " ♦ " mark to "VIEW TIMER".

VOL– VOL+ → CH▲ CH▼

```
PARENT CONTROL

 V-CHIP BLOCK
♦VIEW TIMER
```
(PARENT CONTROL mode)
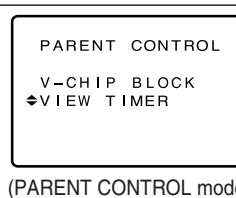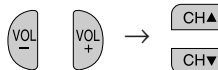
5 Press **VOL (+)** or **(–)** to access "VIEW TIMER".
(The secret No. for SmartLock™ V-CHIP/VIEW TIMER is commonly used. If this secret No. is set by SmartLock™ V-CHIP, the "INPUT SECRET NO." will be displayed.)

VOL– VOL+

```
VIEW TIMER

♦VIEWING TIME
    --H --M
 OFF TIME
    --H --M
 STATUS   :OFF
```
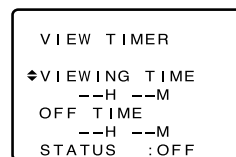
6 Press **CH UP (▲)** or **DOWN (▼)** to select "VIEWING TIME" and "OFF TIME". For each selection, press the **VOL (+)** or **(–)** to set the time duration.

CH▲ CH▼ → VOL– VOL+

```
VIEW TIMER

 VIEWING TIME
    2H 00M
♦OFF TIME
    --H --M
 STATUS:OFF
```
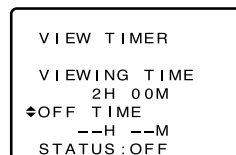
7 Press **CH UP (▲)** or **DOWN (▼)** to select "STATUS". Press the **VOL (+)** or **(–)** to turn ON the "VIEWING TIMER". (If STATUS is OFF, VIEW TIMER is not operated)

CH▲ CH▼ → VOL– VOL+

```
VIEW TIMER

 VIEWING TIME
    2H 00M
 OFF TIME
    5H 00M
♦STATUS:ON
```
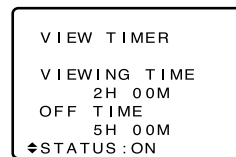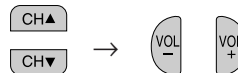
8 Press **MENU**. "INPUT SECRET No." will be displayed.

MENU ○

```
INPUT SECRET No.

    - - - -
```

23
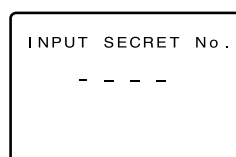
Parent Control (VIEW TIMER Continued)

9 Enter the 4-digit SECRET No. using the **REMOTE KEYPAD**.
10 Press **MENU**, and SECRET No. is registered.

MENU →
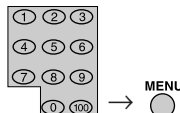
```
INPUT SECRET No.

    1  2  3  0
```

Example:
- To restrict anybody from watching the TV for 5 hours, after watching the TV for 2 hours, your settings would look like this:
- They can choose to watch the 2 hours of TV however they wish. For example, they could watch 1 hour of TV, turn TV off for 30 minutes, then turn TV on and watch the remaining 1 hour on the VIEWING TIMER.

```
VIEW TIMER

VIEWING TIME
     2H 00M
OFF TIME
     5H 00M
♦STATUS:ON
```

■ **To change the VIEW TIMER settings. (SECRET No. is registered)**

1 Repeat "How to set VIEW TIMER" steps and select "PARENT CONTROL VIEW TIMER" during step **3**. Press **VOL (+)** or **(–)**, and "INPUT SECRET No." will be displayed.

VOL – VOL +

```
INPUT SECRET No.

    _  _  _  _
```

2 Enter the 4-digit SECRET No. using the **REMOTE KEYPAD**, and the VIEW TIMER access screen will be displayed. Repeat step **5** - **6**.
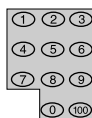
```
INPUT SECRET No.

    *  *  *  *
```

NOTE:
- When you choose the correct SECRET No., the VIEW TIMER access screen is displayed. If the wrong SECRET No. is chosen, "SECRET No. IS INCORRECT" is displayed. Input the SECRET No. again in this case.

```
SECRET No. IS
INCORRECT
```

■ **To cancel the VIEW TIMER (While the TV set is OFF but the VIEW TIMER is set)**

1 Turn on TV; a blue screen message "TIME OVER" will appear. If you do nothing, the TV will turn off in approximately 30 seconds.

```
TIME OVER

INPUT SECRET No.

    _  _  _  _
```

2 Enter the 4-digit SECRET No. using the **REMOTE KEYPAD**. When you choose the correct SECRET No., the VIEW TIMER is canceled. If the wrong SECRET No. is chosen, "SECRET No. IS INCORRECT" is displayed. Input the SECRET No. again in this case.
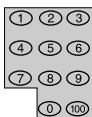
```
TIME OVER

INPUT SECRET No.

    *  *  *  *
```

■ **To cancel the VIEW TIMER setting or change the SECRET No. (When you forget the SECRET No.)**

1 Repeat "How to set VIEW TIMER" steps and select "PARENT CONTROL VIEW TIMER" during step **3**. Press **VOL (+)** or **(–)**, and "INPUT SECRET No." will be displayed.

VOL – VOL +

```
INPUT SECRET No.

    _  _  _  _
```

24

Parent Control (VIEW TIMER Continued)

2 Press and hold both **VOL (+)** and **CH DOWN (▼)** on the TV set simultaneously until the VIEW TIMER access screen is displayed. Now you can cancel the VIEW TIMER settings or can change the SECRET No. while "INPUT SECRET No." is displayed.

(On the set)

| VOL + | CH ▼ |
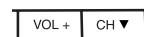
■ **Notice of Remaining VIEWING TIME**
  • For every 30 minute interval, the "remaining time" will be displayed for four seconds. For the last five minutes, the "remaining time" will be displayed every minute.
  • "0 REMAIN" will be displayed for 10 seconds just before the VIEWING TIME is completed.

```
VIEWING TIME
    0H  30M  REMAIN

VIEWING TIME
    0H  05M  REMAIN

VIEWING TIME
    0  REMAIN
```
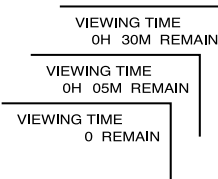
Energy Save

■ **This feature lets you lower the power consumption of your TV set which in turn saves you money and minimizes the impact on the environment. When this feature is turned on, it reduces the brightness of the TV to a level that consumes approximately 20 percent less energy than when the feature is turned off. The reduction in brightness will be less noticeable under low room lighting conditions.**

VOLUME (+)/(−)

CHANNEL UP (▲)/ DOWN (▼)
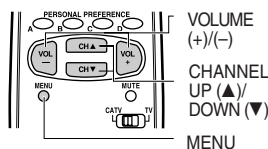
MENU

1 Press **MENU** to access MAIN MENU screen.

2 Press **CH UP (▲)** or **DOWN (▼)** to move the "♦" mark to "ENERGY SAVE".
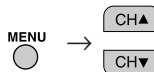
MENU → CH▲ / CH▼

```
T I MER
V I DEO  ADJUST
AUD I O  SELECT
CLOSED  CAPT I ON
PARENT  CONTROL
♦ENERGY  SAVE
SET  UP
```
(MAIN MENU screen)

3 Press **VOL (+)** or **(−)** to access ENERGY SAVE select mode.

VOL − / VOL +

```
ENERGY  SAVE
    : OF F
```
(ENERGY SAVE select mode)

4 Press **VOL (+)** or **(−)** to select "ON".

VOL − / VOL +

```
ENERGY  SAVE
    : ON
```

5 Press **MENU** to exit.

MENU

25

AUTO PRESET

■ **AUTO PRESET**
   By operating the channel presetting functions, you can preset your TV to the desired channels for viewing.
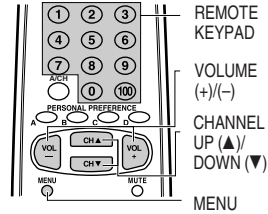
   REMOTE KEYPAD
   VOLUME (+)/(–)
   CHANNEL UP (▲)/ DOWN (▼)
   MENU

1 Press **MENU** to access MAIN MENU screen.

2 Press **CH UP (▲)** or **DOWN (▼)** to move the " ⬍ " mark to "SET UP".

   MENU → CH▲ / CH▼

```
TIMER
VIDEO ADJUST
AUDIO SELECT
CLOSED CAPTION
PARENT CONTROL
ENERGY SAVE
⬍SET UP
```
(MAIN MENU screen)

3 Press **VOL (+)** or **(–)** to access SET UP mode, then press **CH UP (▲)** or **DOWN (▼)** to move the " ⬍ " mark to "CH SETTING".

   VOL – / VOL + → CH▲ / CH▼

```
BLUE SCREEN
PERSONAL PREF.
UNIVERSAL PLUS
LANGUAGE
⬍CH SETTING
```
(SET UP mode)
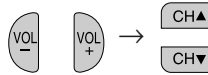
4 Press **VOL (+)** or **(–)** to access CH SETTING mode.

   CH▲ / CH▼

```
⬍AUTO PRESET
AIR/CABLE
CH SEARCH
CH MEMORY
```
(CH SETTING mode)

5 Press **VOL (+)** or **(–)** to access AUTO PRESET mode.

   VOL – / VOL +

```
CONNECT ANTENNA
 OR CABLE.

START AUTO PRESET?

     YES:VOL+
     NO :VOL–
```
(EZ SETUP mode)

6 Press **VOL (+)**.
   The tuner will automatically search for the broadcasting and cable TV channels. (The CH No. will automatically increase when it appears.)

   If you want to stop the AUTO PRESET process once it has started, press **VOL (–)**. Search will be canceled.

   To cancel AUTO PRESET
   Press **VOL (–)**.

   VOL +

```
PLEASE WAIT

AUTO PROGRAMMING

18
        STOP:VOL–
```

7 Once AUTO PRESET is completed, the lowest channel number memorized will be displayed.

```
              2
```

26

AUTO PRESET (Continued)

■ **CHANNEL SETTING**
If AUTO PRESET does not memorize all the channels in your region, follow the instructions below to manually memorize the channel.

1 Press *MENU* to access MAIN MENU screen.
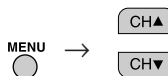
2 Press *CH UP (▲)* or *DOWN (▼)* to move the "♦" mark to "SET UP".

MENU → CH▲ / CH▼

```
  TIMER
  VIDEO ADJUST
  AUDIO SELECT
  CLOSED CAPTION
  PARENT CONTROL
  ENERGY SAVE
 ♦SET UP
```
(MAIN MENU screen)

3 Press *VOL (+)* or *(–)* to access SET UP mode.

4 Press *CH UP (▲)* or *DOWN (▼)* to move the "♦" mark to "CH SETTING".

VOL− VOL+ → CH▲ / CH▼
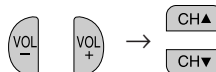
```
  BLUE SCREEN
  PERSONAL PREF.
  UNIVERSAL PLUS
  LANGUAGE
 ♦CH SETTING
```
(SET UP mode)

5 Press *VOL (+)* or *(–)* to access CH SETTING mode.

VOL− VOL+

```
 ♦AUTO PRESET
  AIR/CABLE
  CH SEARCH
  CH MEMORY
```
(CH SETTING mode)

6 Press *CH UP (▲)* or *DOWN (▼)* to move the "♦" mark to the "AIR/CABLE", then press *VOL (+)* or *(–)* to access AIR/CABLE mode.

CH▲ / CH▼ → VOL− VOL+
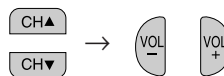
```
  AUTO PRESET
 ♦AIR/CABLE
  CH SEARCH
  CH MEMORY
```
(CH SETTING mode)

7 Press *CH UP (▲)* or *DOWN (▼)* to move the "♦" mark to the desired mode.

AIR ⇄ CABLE STD ⇄ CABLE HRC ⇄ CABLE IRC

CH▲ / CH▼
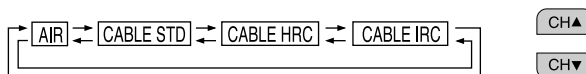
```
  AIR/CABLE

 |AIR
 |CABLE STD
 ♦CABLE HRC
 |CABLE IRC
```
(AIR/CABLE mode)

8 Press *MENU* to exit.

MENU

NOTE:
• Receivable channels of your TV set are:
  AIR channels: VHF: 2 through 13. CABLE channels: 1 (HRC and IRC mode only)
              UHF: 14 through 69.   2 through 125 (STD, HRC and IRC)

27

AUTO PRESET (Continued)

■ **Saving broadcast TV channels into memory.**

1.1 Press **MENU** to access MAIN MENU screen, then press **CH UP (▲)** or **DOWN (▼)** to move the "♦" mark to "SET UP".
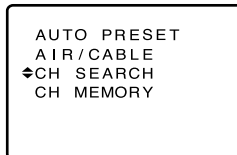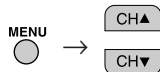
1.2 Press **VOL (+)** or **(–)** to access SET UP mode, then press **CH UP (▲)** or **DOWN (▼)** to move the "♦" mark to "CH SETTING".
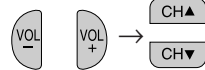
1.3 Press **VOL (+)** or **(–)** to access CH SETTING mode.
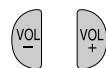
1.4 Press **CH UP (▲)** or **DOWN (▼)** to move the "♦" mark to "CH SEARCH", then press **VOL (+)** or **(–)** to access CH SEARCH mode.

```
AUTO  PRESET
AIR/CABLE
♦CH  SEARCH
 CH  MEMORY
```
(CH SETTING mode)
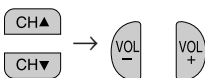
START (START)

2.1 Press **VOL (+)**. The tuner will search through all available channels in your area and add them into the TV's memory.

STOP (STOP)

2.2 Press **VOL (–)**. CH SEARCH will stop at the current channel and will not add any higher channels.

2.3 Press **MENU** to exit.

```
CH  SEARCH

  AIR   12

              START : +
              STOP  : –
```
(CH SEARCH mode)

■ **Adding weak or additional channels or erasing unwanted channels from TV memory.**

1.1 Press **MENU** to access MAIN MENU screen, then press **CH UP (▲)** or **DOWN (▼)** to move the "♦" mark to "SET UP".
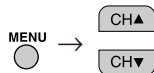
1.2 Press **VOL (+)** or **(–)** to access SET UP mode, then press **CH UP (▲)** or **DOWN (▼)** to move the "♦" mark to "CH SETTING".
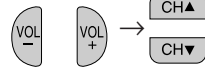
1.3 Press **VOL (+)** or **(–)** to access CH SETTING mode, then press **CH UP (▲)** or **DOWN (▼)** to move the "♦" mark to "CH MEMORY".

```
AUTO  PRESET
AIR/CABLE
 CH  SEARCH
♦CH  MEMORY
```
(CH SETTING mode)

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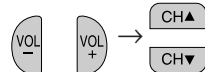
AUTO PRESET (Continued)

2.1 Press *VOL (+)* or *(–)* to access CH MEMORY.

2.2 Use *CH UP (▲)* or *DOWN (▼)* or *REMOTE KEYPAD* to select each desired channel to add or erase.
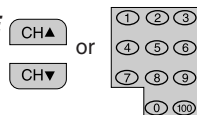
2.3 Press *VOL (+)* to add a channel to the TV's memory or press *VOL (–)* to erase a channel from the TV's memory.

2.4 Press *MENU* to exit.

```
CH MEMORY

AIR 12

     TO ADD   : +
```
(CH MEMORY
unmemorized channel)

VOL (+)
To add channel 12 to the TV memory

VOL (–)
To erase channel 12 from the TV memory
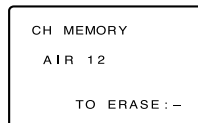
```
CH MEMORY

AIR 12

        TO ERASE : –
```
(CH MEMORY
memorized channel)

VOLUME (+)/(–)

CHANNEL UP (▲)/ DOWN (▼)
MENU
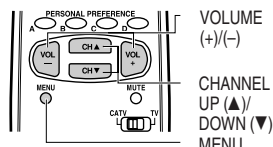
NOTE:
• If you press *VOL (+)* again while in the CH SEARCH mode, auto-program will start again, and the previously memorized channels will be lost.

■ **BLUE SCREEN**
Automatically turns the screen blue if a broadcast signal is not received.

1 Press *MENU* to access MAIN MENU screen.
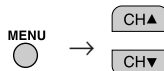
2 Press *CH UP (▲)* or *DOWN (▼)* to move the "⬍" mark to "SET UP".

```
TIMER
VIDEO ADJUST
AUDIO SELECT
CLOSED CAPTION
PARENT CONTROL
ENERGY SAVE
⬍SET UP
```
(MAIN MENU screen)

3 Press *VOL (+)* or *(–)* to access SET UP mode.

```
⬍BLUE SCREEN
PERSONAL PREF.
UNIVERSAL PLUS
LANGUAGE
CH SETTING
```
(SET UP mode)

4 Press *VOL (+)* or *(–)* to access BLUE SCREEN select mode.

```
BLUE SCREEN
    : OFF
```
(BLUE SCREEN select mode)

5 Press *VOL (+)* or *(–)* to select "ON".

```
BLUE SCREEN
    : ON
```

29

6 Press *MENU* to exit.

MENU

NOTE:

- Poor reception due to weak signals, or too much noise might activate the BLUE SCREEN function despite the presence of a broadcast signal. To continue watching TV under these conditions, switch the BLUE SCREEN "OFF".
- While VCR input mode is selected, the BLUE SCREEN will not be shown on your TV even if the BLUE SCREEN is turned on.

■ **PERSONAL PREFERENCE**

By setting the PERSONAL PREFERENCE channels in advance, you can select your favorite channels easily.

REMOTE KEYPAD

VOLUME (+)/(−)

CHANNEL UP (▲)/ DOWN (▼)

PERSONAL PREFERENCE

MENU

1 Press *MENU* to access MAIN MENU screen.

2 Press *CH UP (▲)* or *DOWN (▼)* to move the "♦" mark to "SET UP".

MENU → CH▲ / CH▼

```
TIMER
VIDEO ADJUST
AUDIO SELECT
CLOSED CAPTION
PARENT CONTROL
ENERGY SAVE
♦SET UP
```
(MAIN MENU screen)
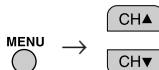
3 Press *VOL (+)* or *(–)* to access SETUP mode, then press *CH UP (▲)* or *DOWN (▼)* to move the "♦" mark to "PERSONAL PREFERENCE".
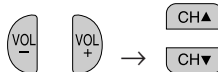
VOL− VOL+ → CH▲ / CH▼

```
BLUE SCREEN
♦PERSONAL PREF.
UNIVERSAL PLUS
LANGUAGE
CH SETTING
```
(SETUP mode)

4 Press *VOL (+)* or *(–)* to select PERSONAL PREFERENCE select mode in which you can program four favorite channels, in four different categories. (total of 16 channels)

VOL− VOL+

```
PERSONAL PREF.

<A>   B    C    D
♦---  ---  ---  ---
---  ---  ---  ---
---  ---  ---  ---
---  ---  ---  ---
```
(PERSONAL PREFERENCE select mode)

5 Press *CH UP (▲)* or *DOWN (▼)* to move the "♦" mark to the desired position.

CH▲ / CH▼

```
PERSONAL PREF.

<A>   B    C    D
|---  ---  ---  ---
♦---  ---  ---  ---
|---  ---  ---  ---
|---  ---  ---  ---
```

6 Press *REMOTE KEYPAD* on the Remote to input the CHANNEL Number into the memory.

Example:

125 — Press "100" followed by "2" and then "5".
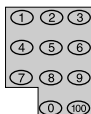
```
PERSONAL PREF.

<A>   B    C    D
♦125  ---  ---  ---
---  ---  ---  ---
---  ---  ---  ---
---  ---  ---  ---
```

7 Repeat steps **4 - 6** to input the next CHANNEL Number.

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AUTO PRESET (Continued)

8 Press *MENU* to exit.

MENU

■ **To select the PERSONAL PREFERENCE channel.**
   If the channels are memorized as shown to the right,
   press the Remote's "A" button to select the Channels below.

   125 → 25 → 40 → 4

```
      PERSONAL  PREF.

    <A>    B    C    D
  ↕125    85   38  ---
    25   123   30  ---
    40    55  --- ---
     4   ---  --- ---
```

■ **UNIVERSAL PLUS FUNCTION**
   VCR input mode will be selected automatically by pressing VCR
   PLAY button on UNIVERSAL REMOTE CONTROL.

   PERSONAL PREFERENCE
   VOL CH▲ VOL
        CH▼
   MENU   MUTE
      CATV   TV

   VOLUME (+)/(−)

   CHANNEL UP (▲)/ DOWN (▼)
   MENU

1 Press *MENU* to access MAIN MENU screen.
2 Press *CH UP (▲)* or *DOWN (▼)* to move the "↕" mark to
   "SET UP".

   MENU → CH▲
             CH▼

```
   TIMER
   VIDEO ADJUST
   AUDIO SELECT
   CLOSED CAPTION
   PARENT CONTROL
   ENERGY SAVE
  ↕SET UP
```
(MAIN MENU screen)

3 Press *VOL (+)* or *(−)* to access SET UP mode.

   VOL−   VOL+

```
  ↕BLUE SCREEN
   PERSONAL PREF.
   UNIVERSAL PLUS
   LANGUAGE
   CH SETTING
```
(SET UP mode)
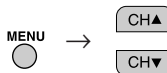
4 Press *CH UP (▲)* or *DOWN (▼)* to move the "↕" mark to
   "UNIVERSAL PLUS".

   CH▲
   CH▼

```
   BLUE SCREEN
   PERSONAL PREF.
  ↕UNIVERSAL PLUS
   LANGUAGE
   CH SETTING
```

5 Press *VOL (+)* or *(−)* to access UNIVERSAL PLUS select mode.

   VOL−   VOL+

```
   UNIVERSAL PLUS

   VCR: ↕CH 3
         CH 4
         INPUT1
         INPUT2
         OFF
```
(UNIVERSAL PLUS select mode)

6 Press *CH UP (▲)* or *DOWN (▼)* to select the "CH3", "CH4",
   "INPUT 1", "INPUT 2" or "OFF".

   Set model to the input in which your VCR is connected.
   If done through RF, select either channel 3 or 4 to match
   the setting of the VCR.

   CH▲
   CH▼

```
   UNIVERSAL PLUS

   VCR: │CH 3
        │CH 4
       ↕│INPUT1
        │INPUT2
        │OFF
```

7 Press *MENU* to exit.

MENU

31

Smart Window™ PIP (Picture In Picture)

■ **With the VIDEO inputs, you can watch two pictures at the same time: one from the antenna or cable TV input and the other from the VIDEO input.**

PIP
SWAP
FREEZE
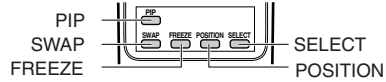
SELECT
POSITION

■ **To View the Inset Picture.**

Press **PIP**.

(Press the button to turn the Inset Picture on and off.)

Main Picture
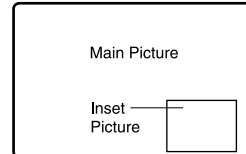
Inset Picture

■ **Channel Display when SmartWindow™ PIP is ON (4 seconds). Example:**

Main Picture — 22

Inset Picture — VIDEO Input

Channel display for Main Picture

Channel display for Inset Picture

2 2

SUB : INPUT1
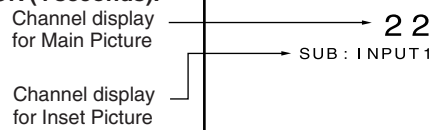
■ **To Select the Input for the Inset Picture.**

Press **SELECT**.
(Each time you press the button, the picture will change as shown below.)

2 2
SUB : 22

2 2
SUB : INPUT1

2 2
SUB : INPUT2
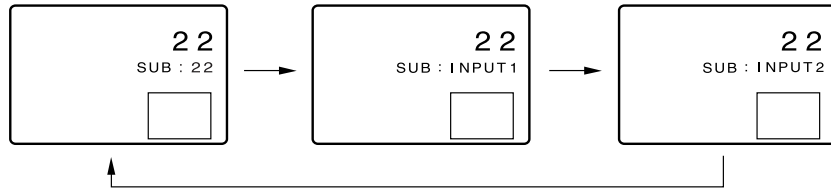
■ **To Swap the Main and Inset Pictures.**

Press **SWAP**.
(Press the button to SWAP the pictures again.)

Example:

2 2
SUB : INPUT1

INPUT 1
SUB : 22

Press the SWAP button.

Main Picture → 22CH
Inset Picture → INPUT 1

Main Picture → INPUT 1
Inset Picture → 22CH

32
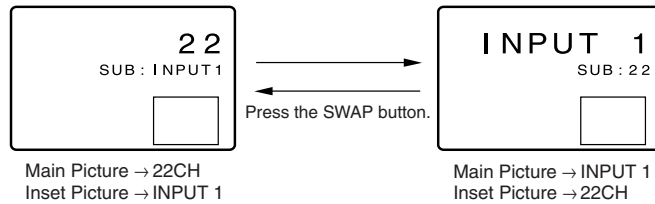
Smart Window™ PIP (Picture In Picture) (Continued)

■ **To Move the Inset Picture.**

Press **POSITION**.
(Press the button again to move the Inset Picture to another position.)
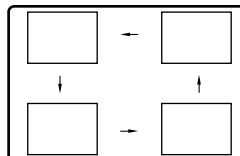
■ **Freeze-Frame Inset Pictures**
- When the Inset Picture is on the screen, press **FREEZE** to freeze the Inset Picture.
  Only when the Main Picture is on the screen, press **FREEZE** to inset a freeze-frame of the Main Picture.
- Press **FREEZE** again to remove the Inset Picture.

NOTE:
- When the Main Picture's signal is black and white or the signal is lost, the Inset Picture may change to black and white. In this case, the Inset Picture may appear with a bit of vertical jagged lines depending on the type of receiving signal.

■ **How Smart Window™ PIP behaves when SmartLock™ V-CHIP BLOCK has been activated.**

Smart Window™ PIP is ON and Main Picture is blocked.

When the Main Picture is blocked, Main Picture will change to blue screen and message "V-CHIP Has Been Activated" will be displayed.

Main Picture Channel No. displays but Insert Picture will be OFF.

This message will remain on-screen until SmartLock™ V-CHIP BLOCK is temporarily canceled or you change the Main Picture to a TV program that is not blocked.

```
                        2 2
V-CHIP  HAS  BEEN
       ACTIVATED


    PIP  DISABLED
```

Channel No. for Main Picture

Blue Screen for Main Picture
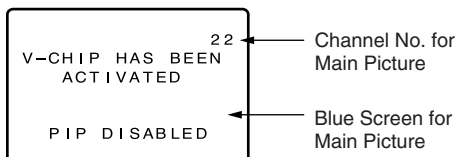
Smart Window™ PIP is ON and Insert Picture is blocked.

When the Insert Picture is blocked, Insert Picture will change to a blue screen.

Main Picture is viewable but a message "V-CHIP Has Been Activated" will be displayed in the Main Picture.

This message will remain on-screen until SmartLock™ V-CHIP BLOCK is temporarily canceled or you change the Insert Picture to a TV program that is not blocked.

```
                        2 2
V-CHIP  HAS  BEEN
       ACTIVATED
```

Main Picture is viewable

Blue Screen for Insert Picture
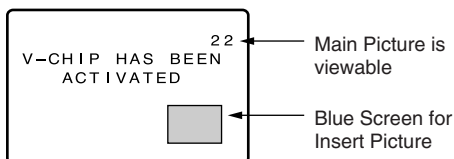
NOTE:
- Please refer to page **20** on how to temporarily cancel SmartLock™ V-CHIP BLOCK.

33

Using the Video and Audio Input Jacks

■ **Connecting video equipment for playback of video material.**

• When the television is connected to video equipment as shown below, the material being played back on the video equipment can be seen on the television screen.

Connecting video device equipped with video output terminal.

CONNECTIONS

(Front connection terminals of TV)

VIDEO EQUIPMENT

To VIDEO OUTPUT

VIDEO   L   AUDIO R

Camcorder   TV Game

(Rear connection terminals of TV)

To VIDEO OUTPUT

VIDEO   AUDIO
S-VIDEO   OUT
R   L(MONO)
IN1

VCR

To AUDIO OUTPUT (R)
To AUDIO OUTPUT (L)
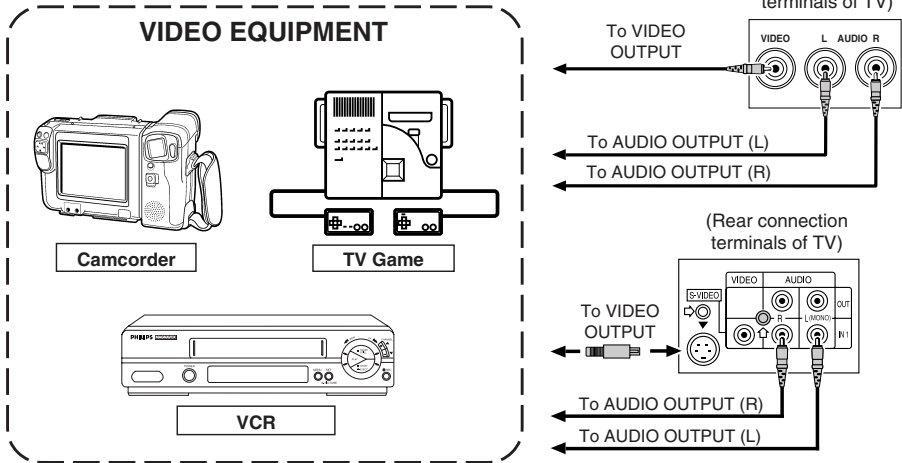
• The S-VIDEO INPUT terminals (IN-1) are used to obtain a higher quality image by importing image signal separated into color and brightness signals.
• The S-VIDEO INPUT terminal is for image signal. Audio signal is to be connected to the IN 1 AUDIO terminals (left and right).

(Rear connection terminals of TV)

To S-VIDEO OUTPUT (When your video equipment has an S-VIDEO output terminal)

VCR

To VIDEO OUTPUT

VIDEO   AUDIO
S-VIDEO   OUT
R   L(MONO)
IN1

To AUDIO OUTPUT (R)
To AUDIO OUTPUT (L)
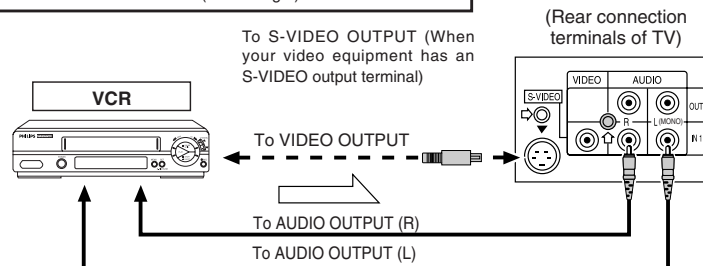
■ **To watch video material playback.**

• Press the Remote's **INPUT** to select VIDEO INPUT mode to which the video equipment you want to playback is connected**.**
• The external VIDEO INPUT mode will change as follows each time the **INPUT** is pressed.

AIR → INPUT 1 → INPUT 2
or   (IN-1)   (IN-2)
CABLE   Rear   Front

• INPUT mode can be selected by pressing either the **CH UP (▲)** on the TV remote control when the TV is set to the highest channel stored in memory, or by pressing the **CH DOWN (▼)** when it is set to the lowest channel.
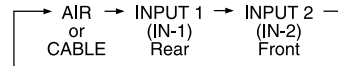
NOTE:

• When connecting video or audio equipment to the television, be sure that the power is turned off in order to prevent damage to either the television or the equipment being connected.
• The S-VIDEO terminal has priority over a VIDEO terminal (IN-1). When you want to watch pictures from video equipment connected to a VIDEO terminal, unplug the equipment connected to the corresponding S-VIDEO terminal.

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Using the Video and Audio Input Jacks (Continued)

• It is the intent of Philips that this product be used in full compliance with the copyright law and that prior permission be obtained from copyright owners whenever necessary.
• For detailed information on the connection and use of auxiliary equipment, refer to the instruction manuals of the equipment being used.
• The connection cords can be obtained from your local video store.

Using the Audio Output Jacks

■ **These jacks are used for connecting a standard stereo amplifier. Control of STEREO/MONO/ SAP, VOLUME and MUTE are retained at the TV. These jacks relay the audio signal of all programs being displayed on the TV screen.**

(AUDIO OUTPUT JACKS are located on the rear of the cabinet.)

CONNECTIONS

(Rear connection terminals of TV)

To the audio input terminals   Stereo Amplifier   Speaker System
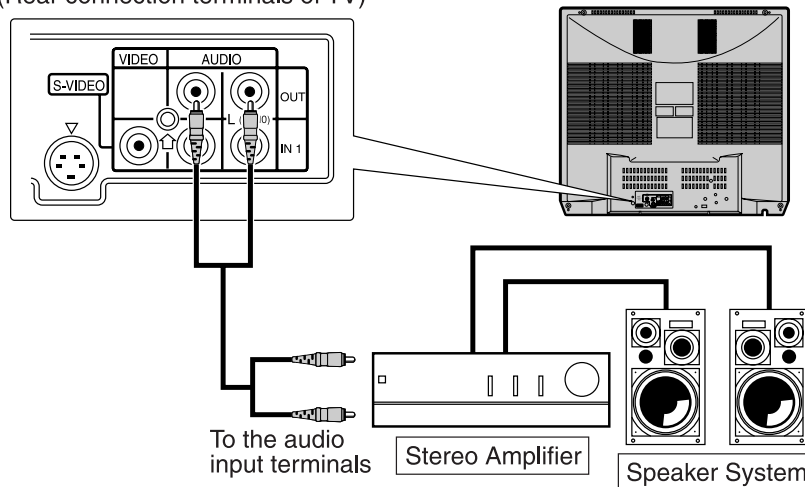
(1) Before connecting the cord, turn on the TV and adjust the VOLUME control on the TV for a moderate listening level.
(2) Turn off the TV and connect the audio cord to the AUDIO LINE OUTPUT JACKS on the TV.
(3) Turn the TV set and stereo amplifier on.
(4) If you desire, you can turn off the sound to the TV's internal speakers by SPEAKER mode. See pages **13 - 14**.
(5) Adjust the VOLUME control on the stereo amplifier for a moderate listening level.
(6) Control of the audio can be done using the audio controls (STEREO/MONO/SAP, VOLUME, and MUTE), from either the remote control, or directly from the TV set.

NOTE:
• For detailed information on the connection and use of auxiliary equipment, refer to the operation manuals of the equipment being used.
• When connecting monaural equipment to the AUDIO INPUT or OUTPUT of this set, use an audio connection cord and plug adapter as shown below.
• For optimal sound quality, it is recommended to keep the TV's audio output level high.

Plug adapter

To the TV   Pin plug x 2   Pin plug   Pin jack/Mini plug   To the equipment being connected

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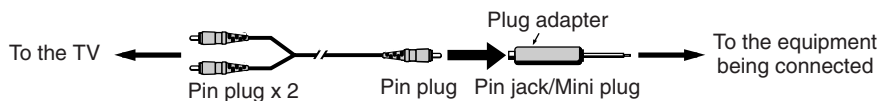
Operation of Remote Control

■ **Universal Remote Control**

With the purchase of your television set you also have received the latest innovation in remote control technology. With its easy-to-use push-button keypad, your Remote can control your television set and most infrared remote-controlled VCRs and cable TV converters as well.

NOTE:

• Depending on the model, year produced, brand and type of VCR, some models may not be compatible with the remote control.

• Some brands of VCR or Cable TV converter Box may not enable channel selection until "100" (ENTER) button is pressed.

Example:
When you select channel 24,
(1) Press REMOTE KEYPAD "2".
(2) Press REMOTE KEYPAD "4".
(3) Press "100" button.
For detailed information on the use of the VCR or Cable TV converter Box refer to their operating manuals.

■ **Using Your Remote With Your TV**

After installing the batteries, set the *TV-CATV* on the remote to the TV position. (If you can change the channel of the TV by pressing *CH UP (▲)* or *DOWN (▼)* on the Remote Control, it is in the TV position.)

■ **"Identifying" Remote VCR and Cable TV Converters**

Your Remote Control has been set at the factory to operate your TV and many remote control VCRs and Cable Converters. However, in some cases an easy one-time set-up step may be necessary before the Remote will operate accessory VCRs and Cable Converters.

• In this set-up step, the Remote locates and memorizes the remote control transmitter code for the VCR or Cable Converter.

• Once "identified", the Remote sends the proper remote signals to operate your accessory.

• This identify step will not have to be repeated until power to the Remote is interrupted due to a battery failure.

■ **Using Your Remote Control With a VCR**

Once you make certain the Remote Control has "identified" your remote controlled VCR, the Remote Control is ready to operate your unit. The various VCR function buttons on the Remote Control will not operate your VCR if those features are not already found on your unit.

• All VCR buttons will operate whether the Remote Control is in TV or CATV modes.

• For detailed information on the use of the VCR, refer to the operation manual of the VCR.

VCR POWER
Press to turn the VCR on and off.

PLAY ▶
Press to playback a tape.

REWIND ◀◀
Press to rewind a tape. For some VCRs you may need to press STOP first, then REWIND.
In Playback mode, hold button down to view picture moving rapidly in reverse.

PAUSE ❙❙
Press to temporarily stop the tape during playback or recording. Press PLAY to release Pause.

STOP ■
Press to stop the tape.

REMOTE KEYPAD
Use to enter two-digit code numbers when identifying your VCR.
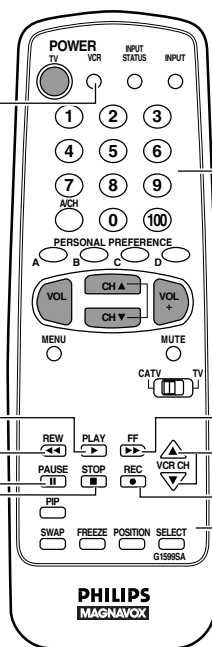
FF ▶▶
Press to rapidly advance the tape. For some VCRs, you may need to press STOP first, then FF.
In Playback mode, hold button down to view the picture moving rapidly in forward direction.

VCR CHANNEL UP (▲) / DOWN (▼)
Press to scan up or down through channels on the VCR.

RECORD ●
Press to begin recording.

PIP BUTTONS
See pages **32 - 33**.

PHILIPS
MAGNAVOX

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POWER TV VCR — INPUT STATUS — INPUT — VCR POWER / INPUT STATUS

REMOTE KEYPAD

CHANNEL UP (▲)/ DOWN (▼)

TV-CATV
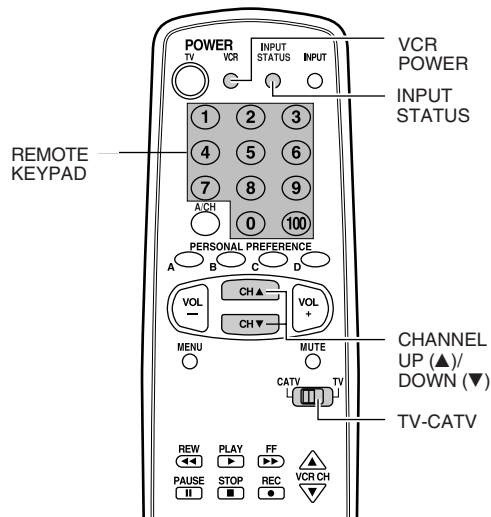
■ **HOW TO IDENTIFY A VCR**

The remote control may already be set to operate your VCR. Try this initial check to see if going on to the following "identify" section is necessary.

(1) Point remote towards VCR and press **VCR POWER**.

(2) Does the remote turn the VCR ON and OFF?
   • If yes, the remote is ready to operate the VCR and no further steps are needed.
   • If no, continue to the "identify" section.

■ **To Identify Your VCR – Direct Entry Method.**

Use the following steps and list to quickly find the remote control code for your accessory VCR.
   • First look up your VCR's remote control code number before going through the direct code entry steps control.
   • If this procedure does not identify your accessory VCR, use the Search method of identification (described in the next section).

(1) Slide **TV-CATV** switch to TV.

(2) Press and hold down **INPUT STATUS** and **CH DOWN (▼)** on your remote control. Then release both buttons.

(3) Within ten seconds after releasing **INPUT STATUS** and **CH DOWN (▼)**, enter your VCR's two-digit remote control code number using **REMOTE KEYPAD** (refer to list).
   • The remote control is now ready to send commands to your VCR.

Some brands have more than one remote code listed due to changes in the remote codes from early to later model years, or due to format differences (VHS/BETA). In such cases, you may have to try more than one code to find the code your VCR accepts.

NOTE:

Depending on the model, year produced, brand, and type of VCR, some models may not be compatible with the remote control.

■ **To Identify Your VCR – Search Method.**

(1) Slide **TV-CATV** switch on the remote to TV.
(2) Press POWER on the VCR to ON.
(3) Stand at least six feet away from the front of the VCR.
   Point the remote towards the VCR.
   Hold down **INPUT STATUS** and **CH UP (▲)** at the same time. KEEP HOLDING THE BUTTONS DOWN.
(4) Watch the Channel Number indicator on the VCR, Channel numbers will scan up when the VCR has been identified.
   Release **INPUT STATUS** and **CH UP (▲)** as soon as the channel numbers start to scan up. The VCR's remote control code number has been identified, and the remote is ready to operate the VCR.

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VCR BRAND	REMOTE CONTROL CODE NUMBER
Akai	25, 26, 37
Audio Dynamics	15, 22, 30
Broksonic	32
Canon	02
Capehart	34
Craig	10, 31
Curtis Mathis	02
Daewoo	34
DBX	15, 22, 30
Dynatech	29
Emerson	21, 32, 35
Fisher	09, 10, 11
Funai	28, 29
GE	02
Goldstar	24
Hitachi	06
Instant Replay	02
JC Penney	02, 06, 24, 30
JVC	15, 41, 42
Kenwood	14, 15
Lloyds	29
Magnavox	01, 02, 03
Magnin	31
Marantz	30
Memorex	02, 10, 24, 29
Minolta	06
Mitsubishi	17, 18, 39, 40
Montgomery Ward	04, 43
Multitech	29
NEC	15, 22, 30
Panasonic	02, 44
Pentax	03, 06
Philco	02, 03
Philips	01, 02, 03
Philips Magnavox	01, 02, 03
Quasar	02
RCA	06, 07, 33
Realistic	04, 08, 10, 24
Samsung	23, 31
Sanyo	14, 10
Scott	20
Sears	06, 11, 24
Sharp	04, 05, 08
Shintom	36
Sony	12, 13, 38
Sound Design	29
Sylvania	01, 02, 03
Symphonic	29
Tatung	15
Teac	15, 29
Teknika	27, 29
Thomas	29
TMK	21
Toshiba	19, 20
Video Concepts	30
Yamaha	15, 29, 30
Zenith	16

TIPS ON IDENTIFYING YOUR VCR:
If your VCR model does not have the CHANNEL UP function on its remote control, it cannot be identified using the SEARCH method of identifying. For such models, please try the DIRECT ENTRY method of identifying.

Be Patient: a minute or two can seem a lot longer when you're waiting for something to happen, but the code should be identified within two minutes. Remember, it is only a one-time set-up.

Be careful not to let the VCR scan more than five channels when the indicator starts to move up. If you continue holding down the **INPUT STATUS** and **CH UP (▲)** after five channel scans, the proper remote code can be passed up, and the two minute identify cycle will have to be repeated.

If a channel change does not occur on the VCR within two minutes, read the identifying instructions again and repeat the steps. Should a channel change still not occur the remote will not operate with the desired VCR.

■ **HOW TO IDENTIFY A CABLE CONVERTER**
■ **To Identify Your Cable Converter – Direct Entry Method.**
  Use the following steps and list to quickly find the remote control code for your cable TV converter.
• First look up your converter's remote code number before going through the direct code entry steps below.
• If this procedure does not identify your converter, use the Search method of identification (described in the next section).

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Operation of Remote Control (Continued)

(1) Slide **TV-CATV** switch to CATV.
(2) Press and hold down **INPUT STATUS** and **CH DOWN (▼)** on your remote control. Then release both buttons.
(3) Within ten seconds after releasing **INPUT STATUS** and **CH DOWN (▼)**, enter your converter's two-digit code number using **REMOTE KEYPAD** (refer to list).
  • The remote control is now ready to send commands to your converter.
  • Some brands have more than one remote code listed due to changes in the remote codes from early to later model years. In such cases, you may have to try more than one code to find the code your converter accepts.

NOTE:
Depending on the model, year produced, brand, and type of CATV converter, some models may not be compatible with the remote control.

■ **To Identify Your Cable Converter – Search Method.**
(1) Slide **TV-CATV** switch on the remote to CATV.
(2) Press the POWER button on the cable converter to ON.
(3) Stand at least six feet away from the converter. Point the remote towards the converter.
  Hold down the **INPUT STATUS** and **CH UP (▲)** at the same time. KEEP HOLDING THE BUTTONS DOWN.
(4) Watch the Channel Number indicator on the converter.
  Channel numbers will scan up when the converter has been identified.
  Release the **INPUT STATUS** and **CH UP (▲)** as soon as the channel numbers start to scan up.
  The converter's remote control code number has been identified, and the remote is ready to operate the converter.

TIPS ON IDENTIFYING YOUR CABLE CONVERTER:
Be Patient: a minute or two can seem a lot longer when you're waiting for something to happen, but the code should be identified within two minutes. Remember, it is only a one-time set-up.
Be careful not to let the CATV converter scan more than five channels when the indicator starts to move up. If you continue holding down the **INPUT STATUS** and **CH UP (▲)** after five channel scans, the proper remote code can be passed up, and the two minute identify cycle will have to be repeated.
If a channel change does not occur on the cable converter within two minutes, read the identifying instructions again and repeat the steps. Should a channel change still not occur, the remote will not operate with the desired converter.

CATV CONVERTER BRAND	REMOTE CONTROL CODE NUMBER
Anvision	07, 08
Cable Star	07, 08
Eagle	08
Eastern International	02
General Instrument	04, 05, 15, 23, 24, 25, 30, 36
Hamlin	12, 13, 34
Jerrold	04, 05, 15, 23, 24, 25, 30, 36
Macom	37
Magnavox	07, 08, 19, 25, 28, 29, 32, 33, 40, 41
NSC	09
Oak	01, 16, 38
Oak Sigma	18
Panasonic	27, 39
Philips	07, 08, 19, 26, 28, 29, 32, 33, 40, 41
Philips Magnavox	07, 08, 19, 25, 26, 28, 29, 32, 33, 40, 41
Pioneer	18, 20
Randtek	07, 08
RCA	27, 43
Regal	12, 13
Regency	02
Scientific Atlanta	03, 22, 42
Sony	44
Sylvania	11
Teknika	06
Texscan	11
Tocom	17, 21
Unika	31
Viewstar	07, 08, 19, 26, 28, 29, 32, 33, 40, 41
Zenith	14

NOTE:
Some satellite receivers can be operated by the REMOTE CONTROL. If you have a Satellite Receiver, you can use the above method to search for available channels.

HELPFUL HINT:

Write down the compatible code for your cable box and/or your VCR somewhere other than the owner's manual (for instance, inside the battery door), to prevent problems that may occur if the owner's manual is misplaced. Each time the batteries are replaced, you will need to reset the remote to work with your cable box and/or your VCR.

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Before Calling for Service

Check these items and see if you can correct trouble with a slight adjustment of the controls.

QUICK SERVICE CHECK LIST — POSSIBLE REMEDY	No Playback of VCR and Disk Player	No Picture or Sound from External Video/Audio Products	Remote Control Doesn't Work	Bars on Screen	Picture Distorted	Picture Rolls Vertically	No Color	Poor Reception on Some Channels	Weak Picture	Lines or Streaks in Picture	Ghosts in Picture	Picture Blurred	Sound OK, Picture Poor	Picture OK, Sound Poor	No Picture or Sound	Dark and Blank Picture	External Electrical Noise Interfering with TV's Operation
Try a new channel, if OK, then possible station trouble.				X	X	X	X	X	X	X	X	X	X	X	X		
Is TV plugged in? Power at outlet?		X	X												X		
Is TV's POWER button on?		X													X		
Is antenna connected to terminal on the back of the set?					X	X	X			X			X		X		
If outside antenna is being used, check for broken wire.				X	X	X	X	X	X	X	X	X	X		X		
Check for local interference or external electrical noise.				X		X		X		X	X		X	X			X
Turn off with POWER button and then turn it on after about a minute.		X													X		
Adjust COLOR control.							X										
Adjust PICTURE control.									X				X				
Check external Video/Audio products: look for loose/broken connection leads. (Refer to page 34)	X	X											X	X	X		
Check batteries of Remote Control.			X														
Press CATV/TV Select Switch to TV position.			X														
Are audio cables connected firmly? Check the volume level.														X			
Is SPEAKER ON? See pages 13 - 14.														X			
Change Closed Caption mode to "OFF"/ Energy Save mode to "OFF".																X	
Unplug the TV and plug it in again after two minutes.		X			X	X	X	X					X	X	X	X	X

NOTE:

- When viewing in TEXT mode, if no TEXT broadcast is being received, the screen may become dark and blank. Should this occur, set the Closed Caption mode to "OFF".

(Dark and Blank Picture)

LIMITED WARRANTY

<u>COLOR TELEVISION</u>

90 Days Free Labor/One Year Free Replacement of Parts
(Two Years Free Replacement of Color Picture Tube)
This product can be repaired in-home.

WHO IS COVERED?
You must have proof of purchase to receive warranty service. A sales
receipt or other document showing that you purchased the product is
considered proof of purchase.

WHAT IS COVERED?
Warranty coverage begins the day you buy your product. *For 90 days
thereafter,* all parts will be repaired or replaced free, and labor is free. *From
90 days to one year from the day of purchase,* all parts will be repaired or
replaced free, but you pay for all labor charges. *From one to two years from
the day of purchase,* you pay for the replacement or repair of all parts
except the picture tube, and for all labor charges. *After two years from the
day of purchase,* you pay for the replacement or repair of all parts, and for
all labor charges.
All parts, including repaired and replaced parts, are covered only for the
original warranty period. When the warranty on the product expires, the
warranty on all replaced and repaired parts also expires.

WHAT IS EXCLUDED?
Your warranty does not cover:
• labor charges for installation or setup of the product, adjustment of
  customer controls on the product, and installation or repair of
  antenna systems outside of the product.
• product repair and/or part replacement because of misuse, accident,
  unauthorized repair or other cause not within the control of Philips
  Consumer Electronics Company.
• reception problems caused by signal conditions or cable or antenna sys-
  tems outside the unit.
• a product that requires modification or adaptation to enable it to operate
  in any country other than the country for which it was designed, manu-
  factured, approved and/or authorized, or repair of products damaged by
  these modifications.
• incidental or consequential damages resulting from the product. (Some
  states do not allow the exclusion of incidental or consequential damages,
  so the above exclusion may not apply to you. This includes, but is not
  limited to, prerecorded material, whether copyrighted or not copyrighted.)
• a product used for commercial or institutional purposes.

WHERE IS SERVICE AVAILABLE?
Warranty service is available in all countries where the product is officially
distributed by Philips Consumer Electronics Company. In countries where
Philips Consumer Electronics Company does not distribute the product, the

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local Philips service organization will attempt to provide service (although there may be a delay if the appropriate spare parts and technical manual(s) are not readily available).

MAKE SURE YOU KEEP...
Please keep your sales receipt or other document showing proof of purchase. Attach it to this owner's manual and keep both nearby. Also keep the original box and packing material in case you need to return your product.

BEFORE REQUESTING SERVICE...
Please check your owner's manual before requesting service. Adjustments of the controls discussed there may save you a service call.

TO GET WARRANTY SERVICE IN U.S.A.,
PUERTO RICO, OR U.S. VIRGIN ISLANDS...
Contact a Philips factory service center (see enclosed list) or authorized service center to arrange repair.
(In U.S.A., Puerto Rico, and U.S. Virgin Islands, all implied warranties, including implied warranties of merchantability and fitness for a particular purpose, are limited in duration to the duration of this express warranty. But, because some states do not allow limitations on how long an implied warranty may last, this limitation may not apply to you.)

TO GET WARRANTY SERVICE IN CANADA...
Please contact Philips at:
            1-800-661-6162 (French speaking)
            1-800-363-7278 (English speaking)
(In Canada, this warranty is given in lieu of all other warranties. No other warranties are expressed or implied, including any implied warranties of merchantability or fitness for a particular purpose. Philips is not liable under any circumstances for any direct, indirect, special, incidental or consequential damages, howsoever incurred, even if notified of the possibility of such damages.)

REMEMBER...
Please record below the model and serial numbers found on the product. Also, please fill out and mail your warranty registration card promptly. It will be easier for us to notify you if necessary.

MODEL # _____

SERIAL # _____

This warranty gives you specific legal rights.
You may have other rights which vary from state/province to state/province.

Philips Service Solutions Group
P.O. Box 2976, Longview, Texas 75606
(903) 242-4800
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