Operating Instructions
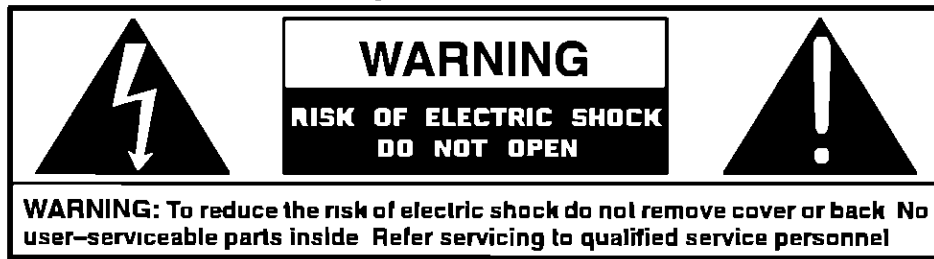
Color Video Monitor/Receiver

Model No. CT–2785VY

Panasonic ®

Read these instructions completely before operating this unit.
Contents subject to change without notice or obligation.

Safety Instructions

WARNING

**RISK OF ELECTRIC SHOCK
DO NOT OPEN**

WARNING: To reduce the risk of electric shock do not remove cover or back No user-serviceable parts inside Refer servicing to qualified service personnel

The lightning flash with arrow-head within a triangle is intended to tell the user that parts inside the product are a risk of electric shock to persons
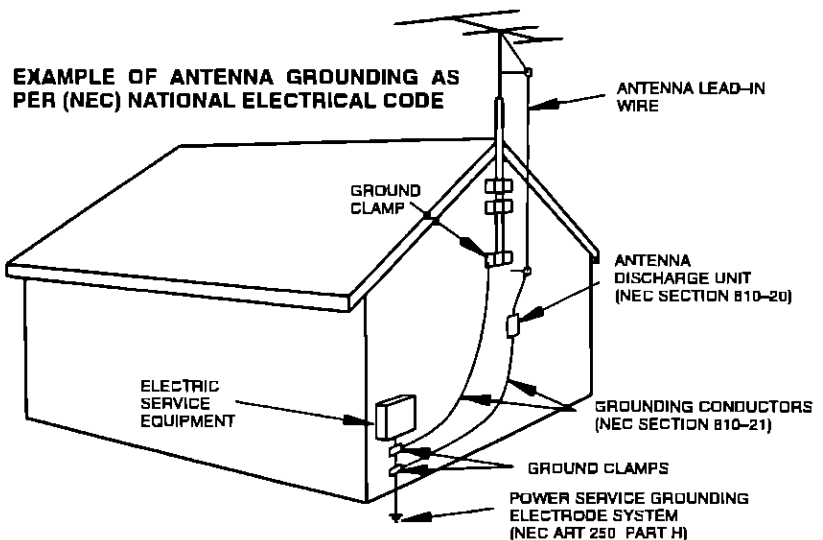
The exclamation point within a triangle is intended to tell the user that important operating and servicing instructions are in the papers with the appliance

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

Safety Instructions for Television Receivers

1   Read and apply the operating instructions provided with your television receiver
2   Read all of the instructions given here and retain them for later use
3   Unplug this television receiver from the wall outlet before cleaning Do not use liquid or aerosol cleaners Use a damp cloth for cleaning
4   Do not use attachments not recommended by the television receiver manufacturer as they may cause hazards
5   Do not use this television receiver near water For example Avoid placing it near a bathtub, washbowl, kitchen sink, or laundry tub, in a wet basement, or near a swimming pool, etc
6   Do not place this television receiver on an unstable cart, stand, or table The television receiver may fall, causing serious injury to a child or adult, and serious damage to the appliance Use only with a cart or stand recommended by the manufacturer, or sold with the television receiver Wall or shelf mounting should follow the manufacturer's instructions, and should use a mounting kit approved 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

7   Slots and openings in the cabinet and the back or bottom are provided for ventilation, and to insure reliable operation of the television receiver and to protect it from overheating These openings must not be blocked or covered The openings should never be blocked by placing the television receiver on a bed, sofa, rug or other similar surface This television receiver should never be placed near or over a radiator or heat register This television receiver should not be placed in a built-in installation such as a bookcase unless proper ventilation is provided

8   Operate only from the type of power source indicated on the marking label If you are not sure of the type of power supplied to your home consult your television dealer or local power company For television receivers designed to operate from battery power, refer to the operating instructions

9   This television receiver is equipped with 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, try reversing the plug If the plug should still fail to fit, contact your electrician to replace your obsolete outlet Do not defeat the safety purpose of the polarized plug

10 Do not allow anything to rest on the power cord Do not locate this television receiver where the cord will be abused by persons walking on it

11 Follow all warnings and instructions marked on the television receiver

12 Do not overload wall outlets and extension cords as this can result in fire or electric shock

13 Never push objects of any kind into this television receiver through cabinet slots as they may touch dangerous voltage points or short out parts that could result in a fire or electric shock Never spill liquid of any kind on the television receiver

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

ANTENNA LEAD-IN WIRE

GROUND CLAMP

ANTENNA DISCHARGE UNIT (NEC SECTION 810-20)

ELECTRIC SERVICE EQUIPMENT

GROUNDING CONDUCTORS (NEC SECTION 810-21)

GROUND CLAMPS

POWER SERVICE GROUNDING ELECTRODE SYSTEM (NEC ART 250 PART H)

14 If an outside antenna is connected to the television equipment, be sure the antenna system is grounded so as to provide some protection against voltage surges and built up static charges In the U S Section 810 of the National Electrical Code and in Canada Part 1 of the Canadian Electrical Code 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 conductors, location of antenna–discharge unit, connection to grounding electrodes, and requirements for the grounding electrode See Figure

15 For added protection for this television receiver during a lightning storm, or when it is left unattended and unused for long periods of time, unplug it from the wall outlet and disconnect the antenna This will prevent damage to the receiver due to lightning and power–line surges

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

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

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

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

20 Upon completion of any service or repairs to this television receiver, ask the service technician to perform routine safety checks to determine that the television is in safe operating condition

21 **WARNING: To prevent fire or shock hazard, do not expose this appliance to rain or moisture**

22 **CAUTION: TO PREVENT ELECTRIC SHOCK DO NOT USE THIS (POLARIZED) PLUG WITH A RECEPTACLE OR OTHER OUTLET UNLESS THE BLADES CAN BE FULLY INSERTED TO PREVENT BLADE EXPOSURE**

NOTE: This equipment is designed to operate in the U S A , Canada and other countries where the broadcasting system and AC house current is exactly the same as in the U S A and Canada

Important Information Regarding Use of Video Games, Computers, Teletext or Other Fixed Image Displays

The extended use of fixed image program material can cause a permanent "shadow image" on the picture tube This background image is viewable on normal programs in the form of a stationary fixed image This type of irreversible picture tube deterioration can be limited by observing the following steps
A Reduce the brightness/contrast setting to a minimum viewing level
B Do not display the fixed image for extended periods of time
C Turn the power off when not in actual use

NOTE: The marking or retained image on the picture tube resulting from fixed image use is not an operating defect and as such is not covered by Warranty This product is not designed to display fixed image patterns for extended periods of time

Specifications

Power Source:	120V, 60Hz, AC
Channel Capability:	181 channels (See chart)
	VHF 2–13, UHF 14–69, Cable 125 channels
Video Input Jack:	1V p–p, 75 ohm, phono jack type
Audio Input Jacks:	500 mV rms 47K ohm
S-VHS Input Jack:	S–Video (Y–C) Connector
Video Througout Jack:	phono jack type
Audio Througout Jacks:	phono jack type
To Audio AMP Jacks:	0–2 0V rms 4 7K ohm
Stereo Sound	
Closed Caption Display	

Channel Capability Chart

BAND	USA/CAN
VHF	12
UHF	56
CABLE (Mid–Band)	15
CABLE (Super Band)	14
CABLE (Hyper Band)	28
CABLE (Ultra Band)	56
TOTAL CHANNELS	**181**

Specifications are subject to change without notice or obligation

Introduction

Congratulations on Your New Purchase

Your new video component features an all solid state chassis which is designed to give you many years of enjoyment It was thoroughly tested and adjusted at the factory for best performance

In order for you to take full advantage of your new video component, please read and follow the installation and operating instructions supplied with this product

Customer's Record

The model and serial number of this product may be found on its back cover You should note the model and serial number in the space provided and retain this book as a permanent record of your purchase to aid in identification in the event of theft or loss

Model Number _____   Serial Number _____

Table of Contents

Installation

Location

Locate for comfortable viewing Avoid placing where sunlight or other bright light (including reflections) will fall on the screen

Use of some types of fluorescent lighting can reduce remote control transmitter range

Adequate ventilation is essential to prevent internal component failure Keep away from areas of excessive heat or moisture

To insure optimum color purity do not position magnetic equipment (motors, fans, other speakers, etc) nearby

Optional External Equipment Connections

The Video/Audio connections between components can be made with shielded video and audio cables For best performance, video cables should utilize 75 ohm coaxial shielded wire Cables are available from your dealer or electronic supply house

Before you purchase any cables, be sure you know what type of output and input connectors your various components require Also determine the length of cable you'll need

NOTE: Two RCA to BNC adaptor is supplied with the Monitor/Receiver

RCA to BNC Adaptor

Power Supply Cord

MAKE SURE PLUG IS INSERTED FULLY INTO RECEPTACLE

This product is equipped with a three–wire grounding type plug – a plug with two blades and a third pin which is round This plug will only fit into a grounding type outlet

This is a safety feature If you are unable to insert the plug into the outlet, contact your electrician to replace your obsolete outlet **DO NOT DEFEAT THE SAFETY PURPOSE OF THE GROUNDING TYPE PLUG.**
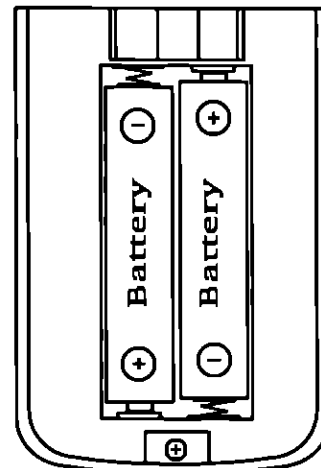
3 Wire Ground Plug

> **CAUTION:** To prevent electric shock, match wide blade of plug to wide slot of AC outlet and fully insert DO NOT USE this (polarized) plug with a receptacle or other outlet unless the blade can be fully inserted to prevent blade exposure
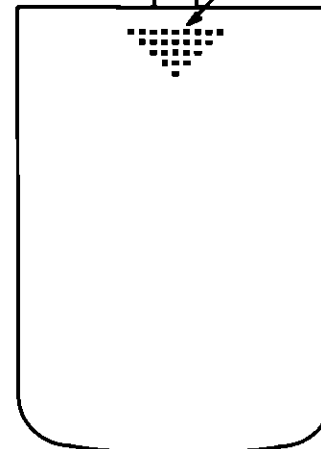
Battery Installation and Replacement

Batteries Use two "AA" batteries

1 Turn the Transmitter face down To remove top cover, press down on marking and slide cover off in the direction indicated
2 Install the batteries as shown in the battery compartment (Polarity (+) or (–) must be correct)
3 Replace the cover and slide until the lock snaps

> ### Helpful Hints:
>
> For frequent Remote Control users, replace old batteries with Alkaline batteries for longer life

> **CAUTION:** Incorrect installation can cause battery leakage and corrosion that will damage the Remote Control Transmitter.

Press Down Here and Slide Cover Back

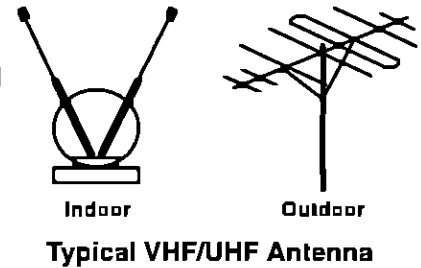**Observe the Following Precautions:**

1 Batteries must be replaced as a pair
2 Do not combine a used battery with a new one
3 Do not mix battery types (Example "Zinc Carbon" with "Alkaline")
4 Do not attempt to charge, short–circuit, disassemble, heat, or burn used batteries.
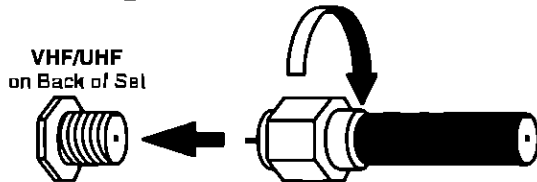5 Battery replacement is necessary when Remote Control reacts sporadically or stops operating the Receiver

Installation (cont.)
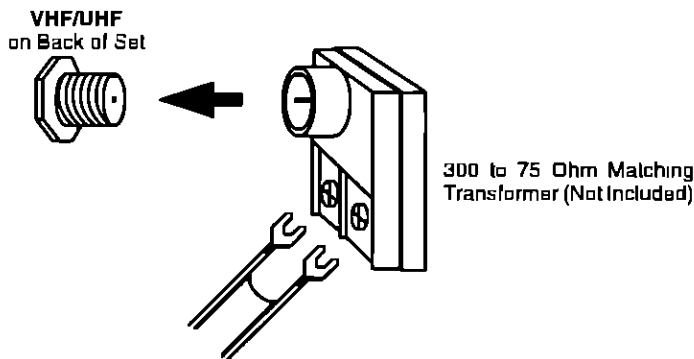
Antenna/Cable Connections

Antenna Connection – For proper reception of VHF/UHF channels an external antenna is required. For best reception an outdoor antenna is recommended. Antenna Mode must be set to TV (Refer to Antenna Mode section.)

Indoor   **Outdoor**

Typical VHF/UHF Antenna

Incoming Cable from Home Antenna (75 Ohm)

VHF/UHF
on Back of Set

Incoming Cable from Home Antenna (300 Ohm)

VHF/UHF
on Back of Set

300 to 75 Ohm Matching
Transformer (Not Included)

Cable Connection – For reception of cable channels, connect the cable supplied by your local cable company. Antenna Mode must be set to CABLE. (Refer to Antenna Mode section.)

Incoming 75 Ohm Cable (from Cable Company)

VHF/UHF
on Back of Set
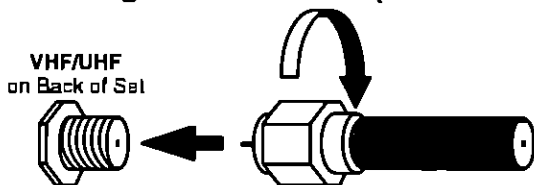
NOTE: Certain cable systems offset some channels to reduce interference or have Premium (scrambled) channels. A cable converter box is required for proper reception. Check with your local Cable company for its compatibility requirements

Other Video Equipment

VCRs, Video Disc Players, Computers, TV games, and Teletext equipment can also be connected to the antenna input connection

Location of Controls (Receiver and Remote)

Remote Control
Sensor

Front Control Panel

POWER ◄ VOL ► ▼ CH ▲ ACTION TV/VIDEO

① ② ③ ④ ⑤

POWER

MULTI

CH

VOL VOL

CH

ACTION

MUTE R-TUNE TV/VIDEO

① ② ③
④ ⑤ ⑥
⑦ ⑧ ⑨

RECALL ⓪ ▲

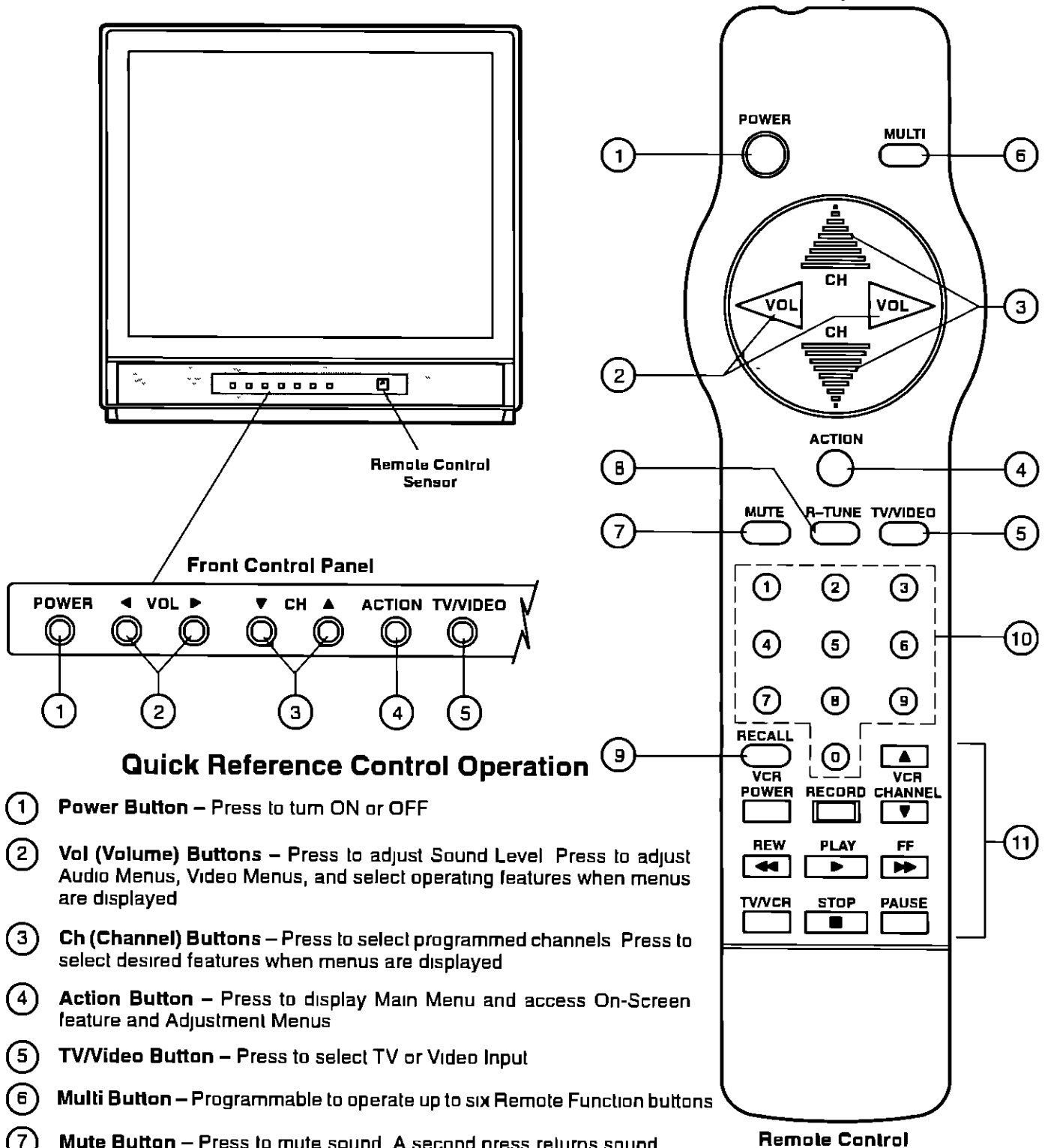VCR VCR
POWER RECORD CHANNEL
▼

REW PLAY FF
◄◄ ► ►►

TV/VCR STOP PAUSE
■

Remote Control

Quick Reference Control Operation

① **Power Button** – Press to turn ON or OFF

② **Vol (Volume) Buttons** – Press to adjust Sound Level Press to adjust Audio Menus, Video Menus, and select operating features when menus are displayed

③ **Ch (Channel) Buttons** – Press to select programmed channels Press to select desired features when menus are displayed

④ **Action Button** – Press to display Main Menu and access On-Screen feature and Adjustment Menus

⑤ **TV/Video Button** – Press to select TV or Video Input

⑥ **Multi Button** – Programmable to operate up to six Remote Function buttons

⑦ **Mute Button** – Press to mute sound A second press returns sound

⑧ **R-Tune (Rapid Tune) Button** – Press to switch between two channels

⑨ **Recall Button** – Press to display Time, status of Sleep Timer, Channel, Video Mode, Audio Mode, and Channel Caption (Station Identifier)

⑩ **Keypad (0 through 9 Buttons)** – Press desired channel number to access any channel

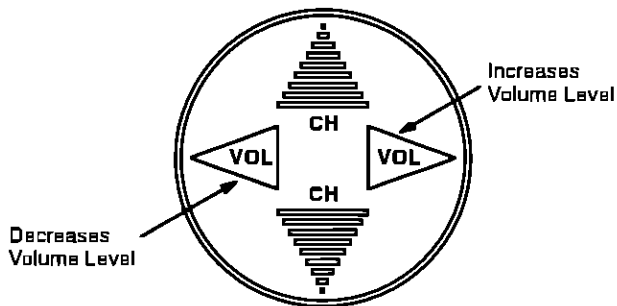⑪ **VCR Function Buttons** – Programmable to operate many brands of VCR's

Control Operation

Power Button – Press the POWER button to turn
ON Press again to turn OFF

POWER

Volume Buttons – Press the VOLUME (VOL)
LEFT or RIGHT button for desired listening level (while
On Screen Menus are not displayed)
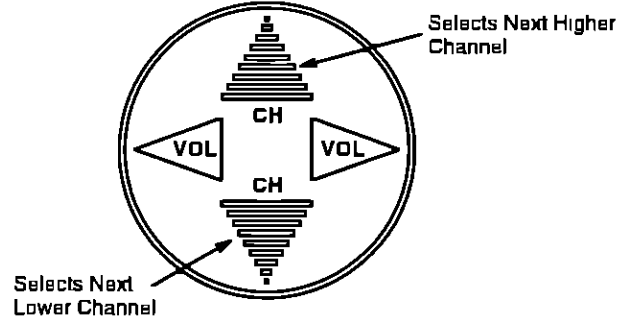
Located On Remote Control

Increases
Volume Level

Decreases
Volume Level

Mute Button – Press the MUTE button to quickly
reduce sound level (Mute will appear on screen) Press
again to restore sound

MUTE

Helpful Hints:

- Helpful information will display On Screen
momentarily when Receiver is first turned on and
when the channel is changed
- When using keypad entry for channels 10,11, and
12 in the CABLE mode, there is a slight delay
before channel change because of the capability of
tuning cable channels 100 to 125
- If you do not receive channels above 13, confirm
the type of signal at ANT Input (TV or Cable) and
set the TV or Cable Tuning Mode accordingly
(Refer to Set-Up Feature, Antenna selection)

NOTE: If "SPEAKER OFF" is displayed On Screen
        after pressing the VOLUME button, refer to
        Audio Menu to turn Speakers "ON"
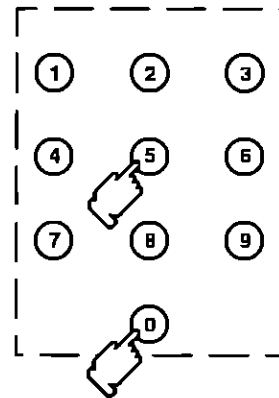
Channel Change (UP/DOWN)

Press the CHANNEL (CH) UP/DOWN button to sequen-
tially scan through programmed channels (while On-
Screen Menus are not displayed)

Located On Remote Control

Selects Next Higher
Channel

Selects Next
Lower Channel

Numeric Keypad (0 through 9 Buttons)

Press two digits on keypad (Example press 0, then 5 for
channel 05) For channels over 99, press three digits on
keypad

VCR Function Buttons – The VCR
FUNCTION buttons have been designed to operate
numerous brands of VCR's The infrared code must be
obtained prior to use. (Please refer to Programming the
Universal Remote for programming instructions)

VCR
POWER   RECORD   VCR
                    CHANNEL

REW   PLAY   FF

TV/VCR   STOP   PAUSE
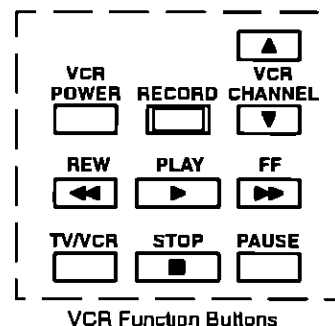
VCR Function Buttons

TV/Video Button – Press the TV/VIDEO button

to select desired input

TV/VIDEO

Signal coming from

REAR VIDEO/AUDIO INPUT TERMINALS → VIDEO
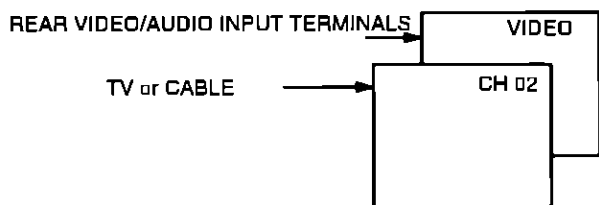
TV or CABLE → CH 02

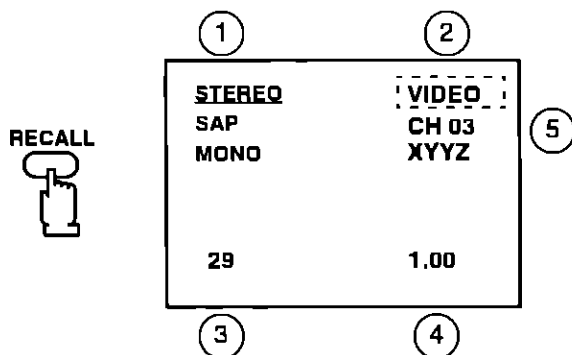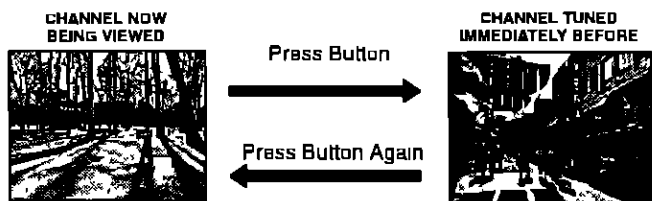## Recall Button – Press the RECALL button to

review

① Audio Mode status

② CH number or Video Input selected

③ Sleep Timer status

④ Clock time

⑤ Channel Caption (Station Identifier)

①   ②

STEREO   ┌──────┐
SAP   ¦VIDEO ¦   ⑤
MONO   CH 03
             XYYZ

RECALL

29   1.00

③   ④

R-Tune Button – Pressing the R-TUNE (RAPID

TUNE) button will switch between the last two channels
selected on the numeric keypad

R-TUNE

CHANNEL NOW
BEING VIEWED   Press Button   CHANNEL TUNED
                              IMMEDIATELY BEFORE

Press Button Again

Multi Button

**The MULTI button can be programmed to operate up
to six (6) Remote function buttons at the same time
For Example.** TV Power/On, VCR Power/On (selected
brands) can be operated at the same time with one press
of the MULTI button

PROCEDURE

1   First program the Remote for the selected VCR
    infrared access code Confirm that the Remote
    Control is compatible with the equipment

2   Face the Remote Control transmitter away from all
    equipment remote sensors

3   Press and hold Remote TV Power button, then
    press and hold the MULTI button down simulta-
   neously (All previous commands are erased)

(TV)
POWER   MULTI
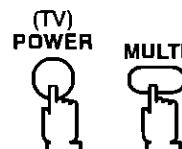
PRESS SIMULTANEOUSLY

4   Press a maximum of six (6) function buttons on the
    Remote
    Each button you press is equal to one function If six (6)
    remote button functions are entered, all will register in
    the MULTI button memory in the sequence entered
    When less than six (6) remote button functions are
    entered, press the MULTI button to end the program
    mode (Waiting more than 30 seconds without pressing
    another button will also end the program mode)

**The following is an example of Remote functions
that can be programmed into the MULTI button.**

–   **TV Power** – For turning TV ON and OFF

–   **VCR Power** – For turning VCR ON and OFF
    (selected brands after programming it's infrared
    access code, if necessary)
    Both can be turned ON or OFF with one press of the
    MULTI button

(TV)   VCR
POWER   POWER   MULTI
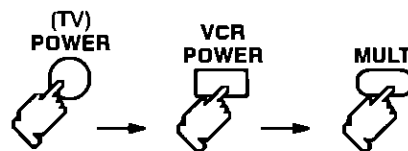
To delete entered functions – Press the Remote
TV POWER and MULTI buttons simultaneously
Now you can enter from one to six different Remote
functions

(TV)
POWER   MULTI
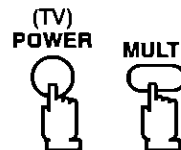
PRESS SIMULTANEOUSLY

NOTE:
You can also program the MULTI button to perform
most individual Remote Control button functions
Buttons which continuously perform a function as
long as pressed (Volume Up/Down, Channel
Up/Down, etc) cannot be programmed Only those
buttons which perform a function when initially
pressed (Power On/Off, Mute, Direct Channel Entry,
etc) can be programmed

Main Menu (Icons)

	EXIT	INPUT	□➡
📷	PICTURE	AUDIO	🔊
🔒	GAME GUARD	CHANNEL CAPTION	HBO ESPN ABC
🕐	TIMER	SET-UP	🔌

Located On Remote Control

Selects Desired Feature When Menu is Displayed

Selects or Adjusts Features When Menu is Displayed

ACTION

Displays and Exits Menus
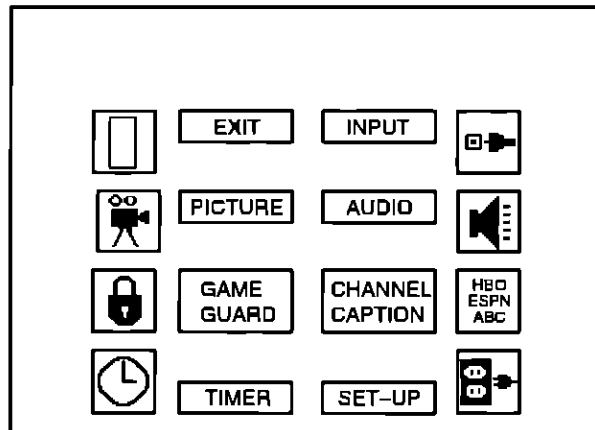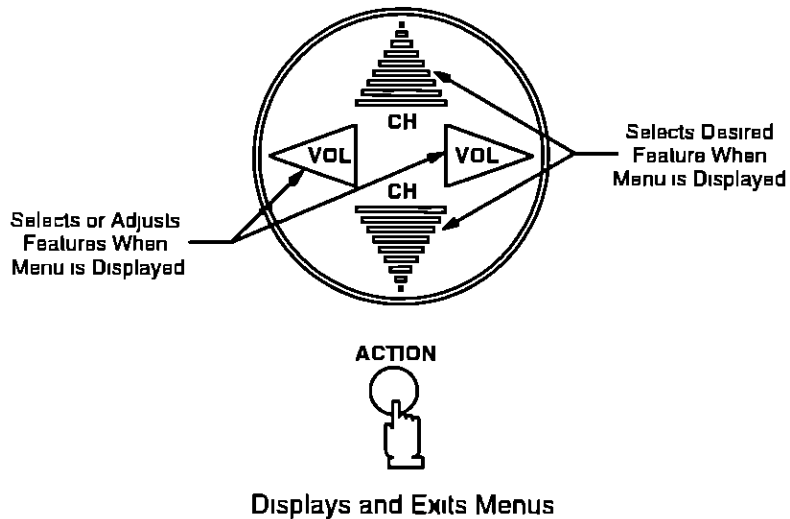
1   Press the ACTION button to display the Main Menu with Icons
2   Press the CH UP/DOWN and the VOL LEFT/RIGHT buttons to select the desired Icon when the Main Menu is displayed (selected Icon will be indicated in Red)
3   Press the VOL buttons for left and right movement and the CH buttons for up or down movement
4   To exit the Main Menu first select the EXIT Icon, then press the ACTION button

Picture Adjustments

- Color
- Tint
- Brightness
- Picture
- Sharpness
- Picture Norm

Located On Remote Control

Selects or Adjusts Features When Menu is Displayed

CH

VOL VOL

CH

Selects Desired Feature When Menu is Displayed

ACTION

Displays and Exits Menus

Helpful Hints:

COLOR – adjust for desired color intensity

TINT – adjust for natural flesh tones

BRIGHTNESS – adjust so dark areas of picture slightly become black for a crisp detail

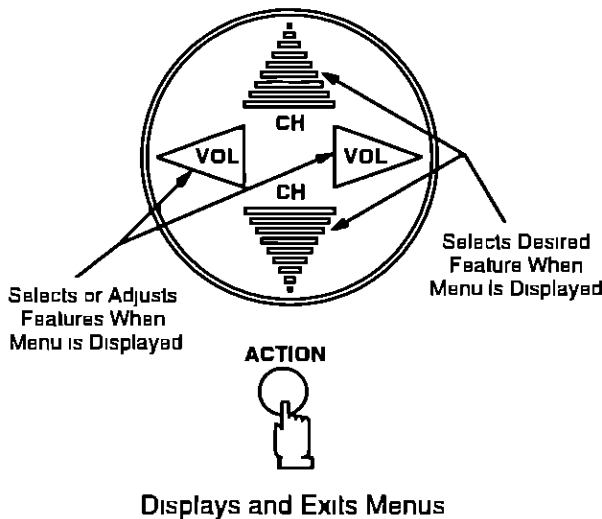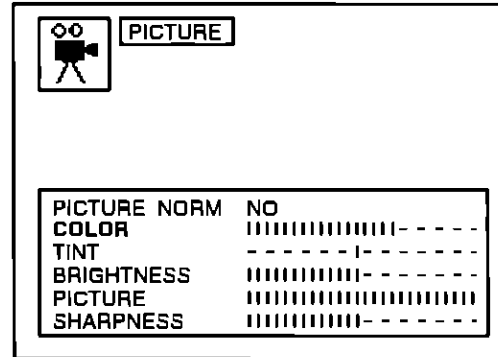**PICTURE** – adjust the white areas of the picture as desired

SHARPNESS – adjust for best clarity of outline detail

Color, Tint, Brightness, Picture and Sharpness Adjustments

1   Press the ACTION button to display the Main Menu

2   Press the CH DOWN button to select the Picture Icon

3   Press the ACTION button to display the Picture Adjustment Menu


```
[camera icon]  [PICTURE]


PICTURE NORM   NO
COLOR          IIIIIIIIIIIIIIIII- - - - -
TINT           - - - - - I- - - - - - -
BRIGHTNESS     IIIIIIIIIIIII- - - - - - -
PICTURE        IIIIIIIIIIIIIIIIIIIIIIIIIII
SHARPNESS      IIIIIIIIIIIIII- - - - - - -
```

4   Press the CH UP/DOWN button to select the desired Picture Adjustment (Color, Tint, Brightness, Picture or Sharpness)

5   Press the VOL LEFT/RIGHT button to adjust your selection

6   Repeat steps 4 and 5 for the remaining Picture Adjustments

7   Press ACTION button twice to exit menus

Picture Norm – This feature is used to reset Color, Tint, Brightness, Picture and Sharpness back to a factory preset level
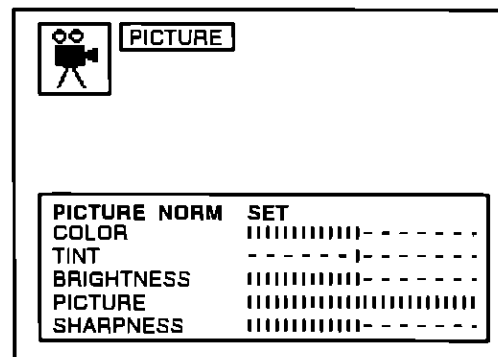
1   Press the ACTION button to display the Main Menu

2   Press the CH DOWN button to select the Picture Icon

3   Press the ACTION button to display the Picture Adjustment Menu


```
[camera icon]  [PICTURE]


PICTURE NORM   SET
COLOR          IIIIIIIIIIIIII- - - - - -
TINT           - - - - - I- - - - - - -
BRIGHTNESS     IIIIIIIIIIIIII- - - - - -
PICTURE        IIIIIIIIIIIIIIIIIIIIIIIIIII
SHARPNESS      IIIIIIIIIIIIII- - - - - - -
```
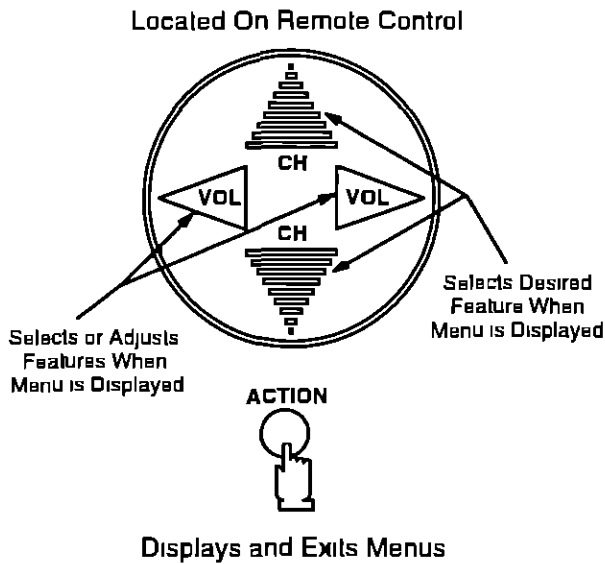
4   Press the VOL LEFT/RIGHT button to select "SET" to Normalize Color, Tint, Brightness, Picture and Sharpness

5   Press ACTION button twice to exit menus

Game Guard

Located On Remote Control

Selects or Adjusts Features When Menu is Displayed

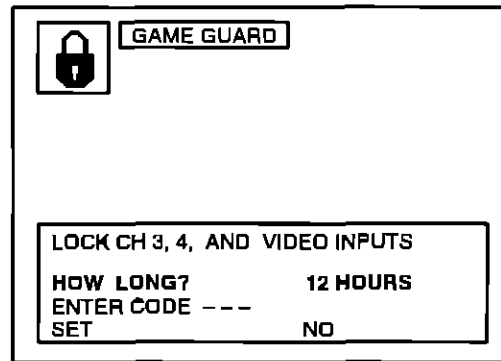Selects Desired Feature When Menu is Displayed
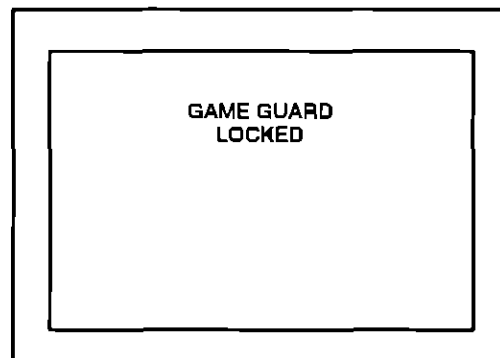
ACTION

Displays and Exits Menus

Game Guard (Lockout) – Prevents video games and other video sources from being viewed Channel 3, 4, and all video inputs are locked out for 12, 24, or 48 hours

NOTE: Be sure to understand this feature before attempting its use **Use a code that you will easily remember.**

1   Press the ACTION button to display the Main Menu

2   Press the CH DOWN button to select the Game Guard Icon

3   Press the ACTION button to display the Game Guard Menu


```
┌─────────────────────────────────────┐
│  ┌──┐   ┌──────────────┐             │
│  │🔒│   │ GAME GUARD   │             │
│  └──┘   └──────────────┘             │
│                                      │
│  ┌────────────────────────────────┐ │
│  │ LOCK CH 3, 4, AND VIDEO INPUTS │ │
│  │                                │ │
│  │ HOW LONG?           12 HOURS   │ │
│  │ ENTER CODE – – –               │ │
│  │ SET                 NO         │ │
│  └────────────────────────────────┘ │
└─────────────────────────────────────┘
```

4   Press the VOL RIGHT button to select the desired hours (12, 24, or 48) for Game Guard (Lockout) to be activated

5   Press the CH DOWN button to select "ENTER CODE" Then enter a 3-digit code with the Remote Control Keypad
    IMPORTANT NOTE: Use a code you can easily remember.

6   Press the VOL LEFT/RIGHT button after entering 3-digit code "Game Guard Locked" will display On Screen


```
┌───────────────────────────────┐
│  ┌─────────────────────────┐  │
│  │                         │  │
│  │       GAME GUARD        │  │
│  │        LOCKED           │  │
│  │                         │  │
│  │                         │  │
│  └─────────────────────────┘  │
└───────────────────────────────┘
```

Game Guard Activated

Game Guard (Unlock)

To unlock the Game Guard feature, repeat steps 1
through 3 Enter the same 3-digit code previously used
in step 5 with Remote Control Keypad

```
LOCK ACTIVATED
ENTER CODE TO CHANGE SETTING

— — —
```
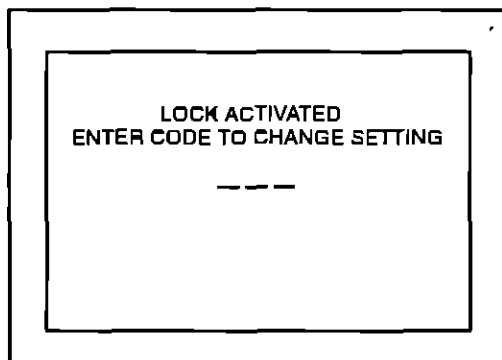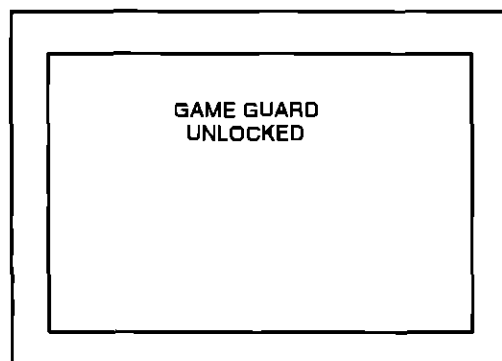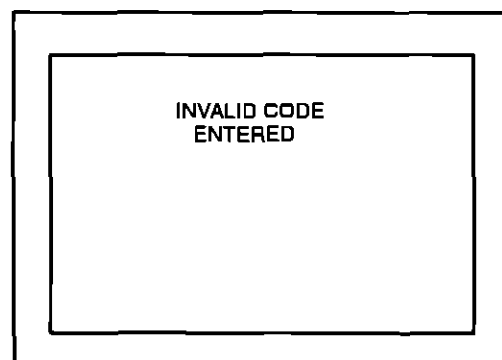
Enter Same 3-Digit Code Previously Used

```
GAME GUARD
UNLOCKED
```

If 3-Digit Code is the Same

```
INVALID CODE
ENTERED
```

If 3-Digit Code is not the Same

Timer Features

Located On Remote Control

Selects or Adjusts
Features When
Menu is Displayed

Selects Desired
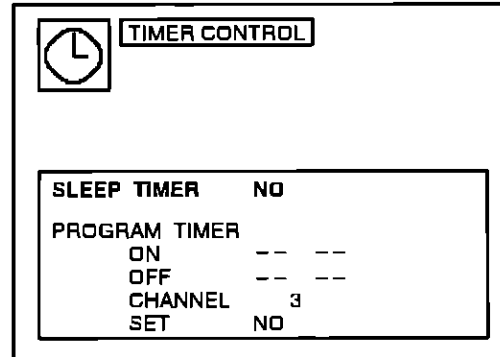Feature When
Menu is Displayed

ACTION

Displays and Exits Menus
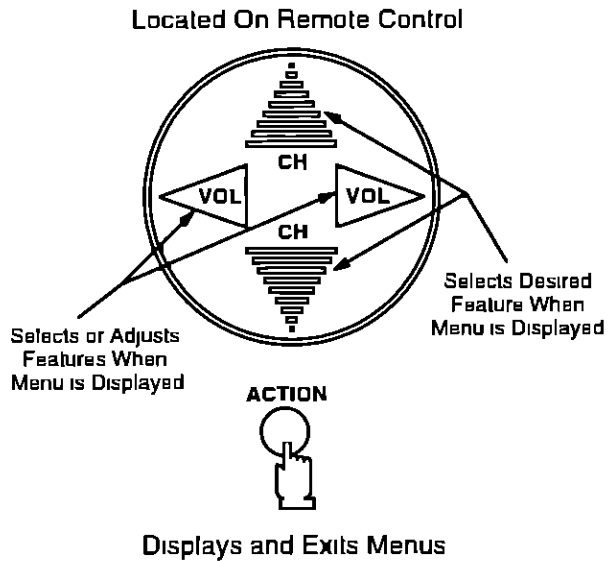
Sleep Timer – This feature is used for automatic turn off in 30, 60, or 90 minutes

NOTE: Display will flash 3, 2, and 1 to indicate the last three remaining minutes prior to turn off The Recall display will also appear

1 Press the ACTION button to display the Main Menu
2 Press the CH DOWN button to select the Timer Icon
3 Press the ACTION button to display the Timer Control Menu


```
┌─────────────────────────────────┐
│  ⊙  │TIMER CONTROL│             │
│                                 │
│  ┌───────────────────────────┐  │
│  │ SLEEP TIMER     NO        │  │
│  │                           │  │
│  │ PROGRAM TIMER             │  │
│  │      ON        -- --      │  │
│  │      OFF       -- --      │  │
│  │      CHANNEL     3        │  │
│  │      SET       NO         │  │
│  └───────────────────────────┘  │
└─────────────────────────────────┘
```

4 Press the VOL RIGHT button to select NO, 30, 60, or 90 minutes
5 Press ACTION button twice to exit menus

NOTE: To deactivate Sleep Timer repeat steps 1 through 4 In step 4 select "NO" instead of minutes

Timer Features (cont.)
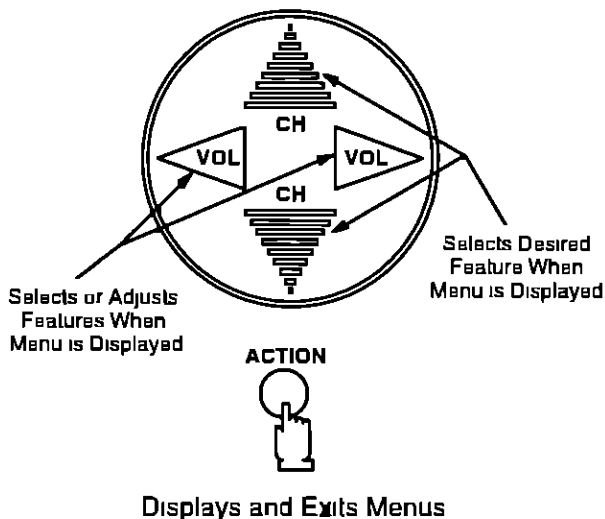
Special Feature:

Automatic turn "OFF" after 90 minutes.

The TV has a special feature that will shut itself
OFF after 90 minutes when turned **ON** by the
program timer
This feature is useful so that the TV will not
remain **ON** accidentally
Pressing **any** key during the 90 minutes will
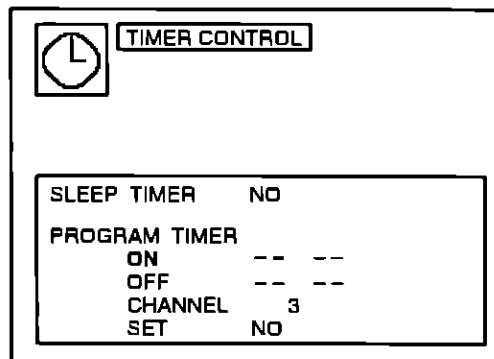cancel the automatic **OFF** feature

Located On Remote Control

Selects or Adjusts
Features When
Menu is Displayed

Selects Desired
Feature When
Menu is Displayed

ACTION

Displays and Exits Menus

Program Timer — This feature is capable of
turning the TV on, tuned to a desired channel and off at a
predetermined time (one day or everyday)

NOTE: The clock must be set for this feature to operate
(Refer to the Set-Up Menu to set time)

1   Press the ACTION button to display the Main Menu
2   Press the CH DOWN button to select the Timer Icon
3   Press the ACTION button to display the Timer Control
    Menu


```
┌─────────────────────────────────────┐
│  ┌───┐  ┌─────────────┐              │
│  │ ◔ │  │TIMER CONTROL│              │
│  └───┘  └─────────────┘              │
│                                       │
│  ┌─────────────────────────────────┐ │
│  │ SLEEP TIMER      NO             │ │
│  │                                 │ │
│  │ PROGRAM TIMER                   │ │
│  │    ON         -- --            │ │
│  │    OFF        -- --            │ │
│  │    CHANNEL     3               │ │
│  │    SET         NO              │ │
│  └─────────────────────────────────┘ │
└─────────────────────────────────────┘
```

4   Press the CH DOWN button to select "ON" (time)
5   Press the VOL LEFT/RIGHT button repeatedly to
    set hours (set AM/PM accordingly)
6   Press the CH DOWN button to select the minutes
    position
7   Press the VOL LEFT/RIGHT button repeatedly to
    set minutes
8   Press the CH DOWN button to select "OFF" (time)
9   Repeat steps 5 through 7 for setting "OFF" (time)
10 Press the CH DOWN button to select "CHANNEL"
11 Press the VOL LEFT/RIGHT button or use the
    Remote Control Keypad to enter the channel
    number desired when the set turns "ON"
12 Press the CH DOWN button to select "SET"
13 Press the VOL RIGHT button to select
    - NO – not activated
    - ONE DAY – activated
    - EVERY DAY – activated

NOTE: To deactivate Program Timer select "NO" in
step 13

14 Press ACTION button twice to exit menus

Helpful Hints:

- If you see "GAME GUARD" in the upper right hand
  corner, the channel or Video Input you have selected
  has been locked out

- If the Program Timer "ON" functions while the set is
  operating, the set will automatically tune to the chan-
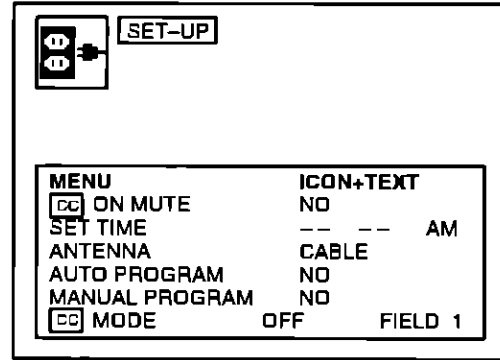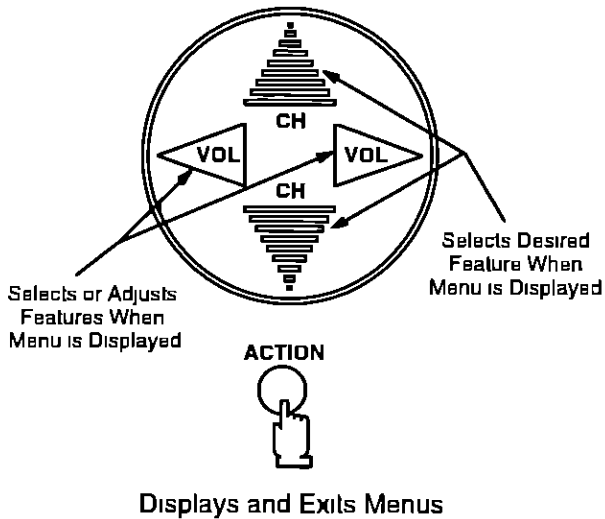 nel designated in the Timer Program

Set-Up Features

- Menu
- CC (Closed Caption) on Mute
- Set Time
- Antenna (TV or Cable)
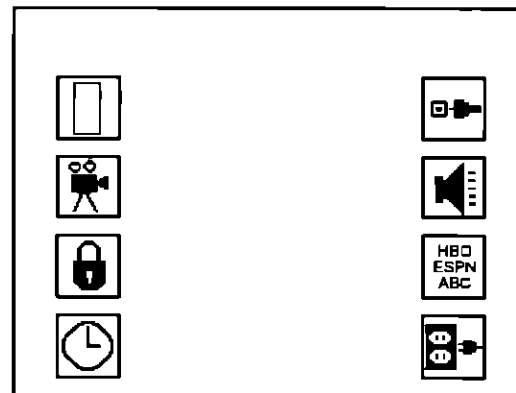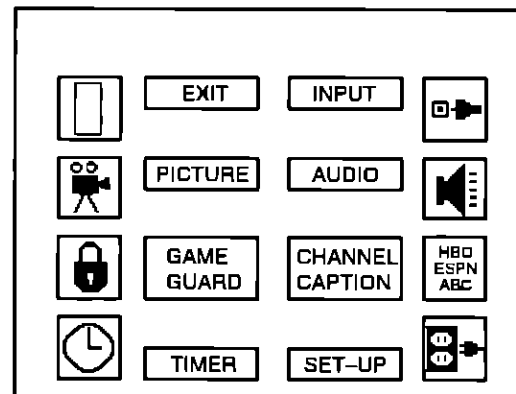- Auto Program
- Manual Program
- CC (Closed Caption) Mode

Located On Remote Control

Selects or Adjusts
Features When
Menu is Displayed

Selects Desired
Feature When
Menu is Displayed

ACTION

Displays and Exits Menus

Menu — The Main Menu can be displayed in two formats Icon with Text or Icon without Text for those familiar with the Icon system

1 Press the ACTION button to display the Main Menu
2 Press the CH DOWN and VOL RIGHT buttons to select the Set-Up Icon
3 Press the ACTION button to display the Set-Up Menu

MENU	ICON+TEXT	
[CC] ON MUTE	NO	
SET TIME	— —	AM
ANTENNA	CABLE	
AUTO PROGRAM	NO	
MANUAL PROGRAM	NO	
[CC] MODE	OFF	FIELD 1

4 Press the VOL LEFT/RIGHT button to select ICON with TEXT or ICON only
5 Press ACTION button twice to exit menus

Icon with Text

Icon (Only)

Set-Up Features (cont.)

Located On Remote Control

Selects or Adjusts
Features When
Menu is Displayed

Selects Desired
Feature When
Menu is Displayed

ACTION

Displays and Exits Menus

|CC| On Mute

Activates the On-Screen Closed Captioning when the MUTE button on the Remote Control is pressed To deactivate press the MUTE button again

NOTE- This feature only functions when the Close Caption Mode is in the "OFF" position The program being viewed must be broadcast with Closed Caption (Refer to your local TV guide)

1 Press the ACTION button to display the Main Menu
2 Press the CH DOWN and VOL RIGHT buttons to select the Set-Up Icon
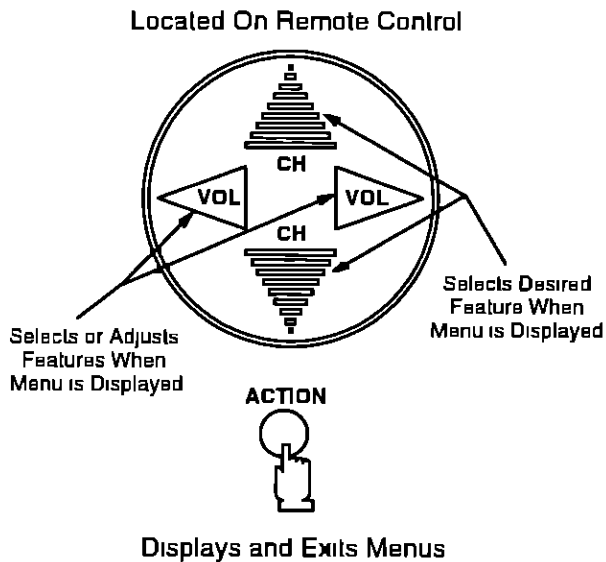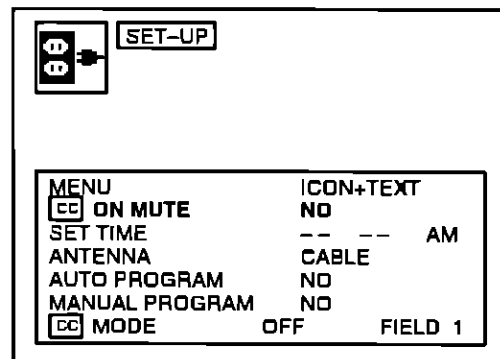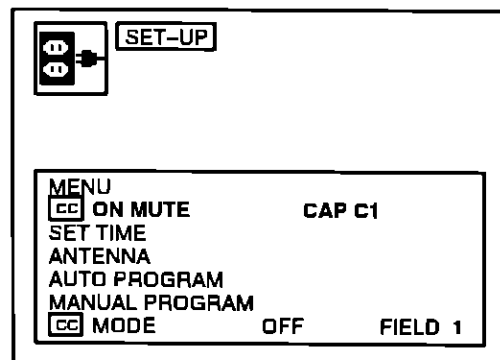3 Press the ACTION button to display the Set-Up Menu

SET-UP	
MENU	ICON+TEXT
[CC] ON MUTE	NO
SET TIME	-- -- AM
ANTENNA	CABLE
AUTO PROGRAM	NO
MANUAL PROGRAM	NO
[CC] MODE	OFF FIELD 1

4 Press the CH DOWN button to select "CC ON MUTE"
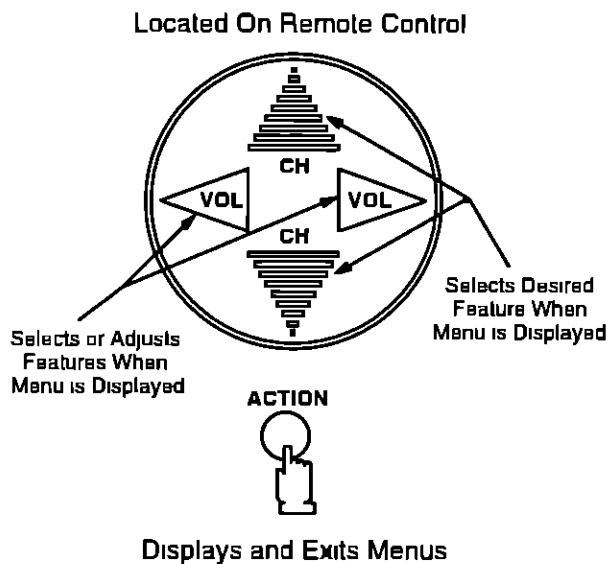5 Press the VOL RIGHT button to select NO (OFF), CAP C1, or CAP C2

Recommended Set-Up

1 Place CC ON MUTE into the CAP C1 Mode
2 Press the CH DOWN button to select "CC MODE"
3 Press the VOL RIGHT button to select "OFF"
4 Press the CH DOWN button to select the Field position
5 Press the VOL LEFT/RIGHT button to select "FIELD 1"

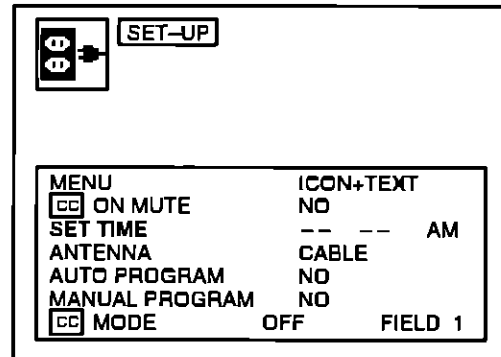| SET-UP	
MENU	
[CC] ON MUTE	CAP C1
SET TIME	
ANTENNA	
AUTO PROGRAM	
MANUAL PROGRAM	
[CC] MODE	OFF FIELD 1

6 Press ACTION button twice to exit menus
7 Press the MUTE button when the program being viewed is broadcast with Closed Caption to activate Press again to deactivate
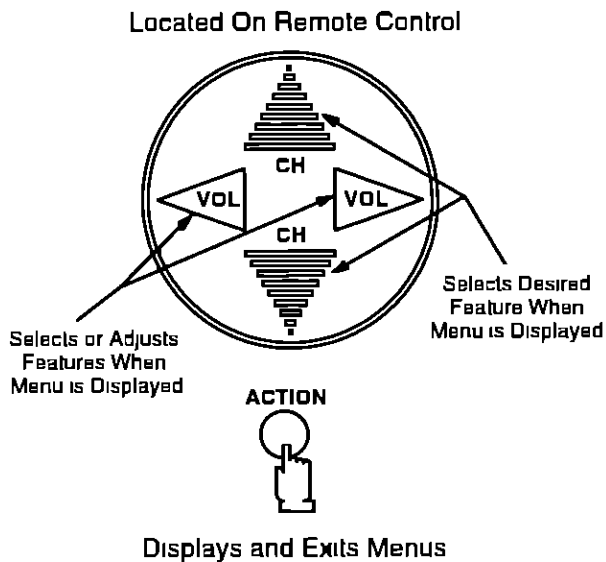
Set-Up Features (cont.)

Located On Remote Control

Selects Desired Feature When Menu is Displayed

Selects or Adjusts Features When Menu is Displayed

ACTION

Displays and Exits Menus

Set Time − Clock (when set) will display on screen at initial "Turn On", after a channel change and when pressing the RECALL button The time must be set first in order to operate the Program ON/OFF Timer

1 Press the ACTION button to display the Main Menu
2 Press the CH DOWN and VOL RIGHT buttons to select the Set-Up Icon
3 Press the ACTION button to display the Set-Up Menu

```
┌─────────────────────────────────────────┐
│  ┌──┐                                     │
│  │oo│→  [SET-UP]                          │
│  │oo│                                     │
│  └──┘                                     │
│                                           │
│   MENU              ICON+TEXT             │
│   [CC] ON MUTE      NO                     │
│   SET TIME          -- --    AM           │
│   ANTENNA           CABLE                 │
│   AUTO PROGRAM      NO                     │
│   MANUAL PROGRAM    NO                     │
│   [CC] MODE         OFF       FIELD 1     │
└─────────────────────────────────────────┘
```
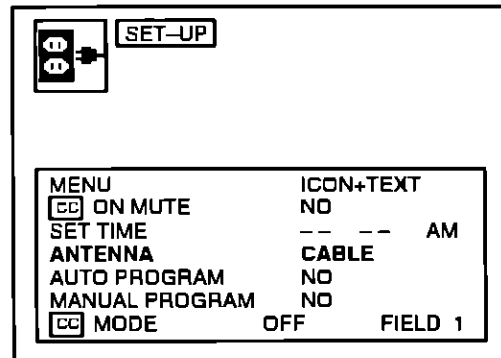
4 Press the CH DOWN button to select "SET TIME"
5 Press the VOL LEFT/RIGHT button to set hours (set AM/PM accordingly)
6 Press the CH DOWN button to select minutes position
7 Press the VOL LEFT/RIGHT button repeatedly to set minutes
8 Press ACTION button twice to exit menus

Set-Up Features (cont.)

Located On Remote Control

Selects or Adjusts
Features When
Menu is Displayed

Selects Desired
Feature When
Menu is Displayed

ACTION

Displays and Exits Menus

Antenna (TV or Cable) — The proper Input mode must be selected for the type of signal at the antenna input

1 Press the ACTION button to display the Main Menu
2 Press the CH DOWN and VOL RIGHT buttons to select the Set-Up Icon
3 Press the ACTION button to display the Set-Up Menu

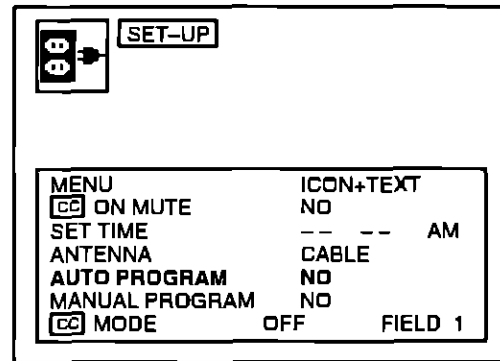| MENU	ICON+TEXT	
CC ON MUTE	NO	
SET TIME	−− −−	AM
ANTENNA	CABLE	
AUTO PROGRAM	NO	
MANUAL PROGRAM	NO	
CC MODE	OFF	FIELD 1

4 Press the CH DOWN button to select "ANTENNA"
5 Press the VOL LEFT/RIGHT button to select TV or CABLE
- TV mode is used when the Receiver is not connected to a cable TV system, for example when using a VHF/UHF antenna (channels 02 – 69)
- Cable mode is used when the Receiver is connected to a Cable TV system and you are not using a cable company converter box (channels 01 – 125)
6 Press ACTION button twice to exit menus

Set-Up Features (cont.)
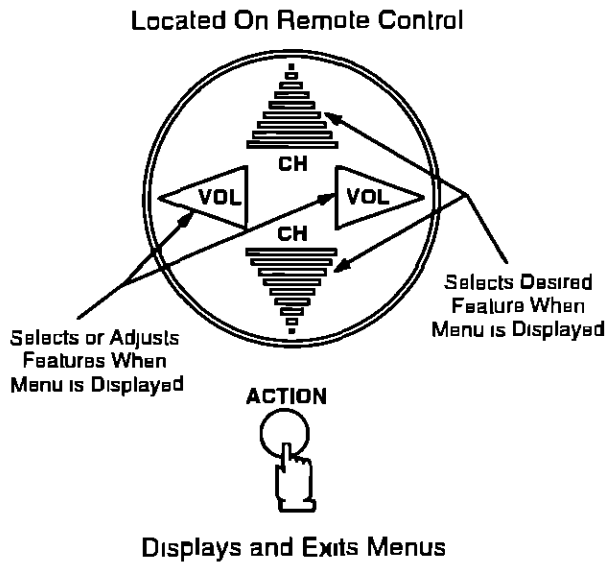
Auto Program – This feature allows you to place all channels with a video signal into Channel Scan Memory Press the CHANNEL (CH) UP/DOWN button and only those channels with a signal will be accessed

Located On Remote Control

Selects Desired
Feature When
Menu is Displayed

Selects or Adjusts
Features When
Menu is Displayed

ACTION

Displays and Exits Menus

1 Press the ACTION button to display the Main Menu
2 Press the CH DOWN and VOL RIGHT buttons to select the Set-Up Icon
3 Press the ACTION button to display the Set-Up Menu

MENU	ICON+TEXT
[CC] ON MUTE	NO
SET TIME	-- -- AM
ANTENNA	CABLE
AUTO PROGRAM	**NO**
MANUAL PROGRAM	NO
[CC] MODE	OFF FIELD 1

4 Press the CH DOWN button to select "AUTO PROGRAM"
5 Press the VOL LEFT/RIGHT button to start Auto Programming Channels will automatically advance until all channels have been scanned
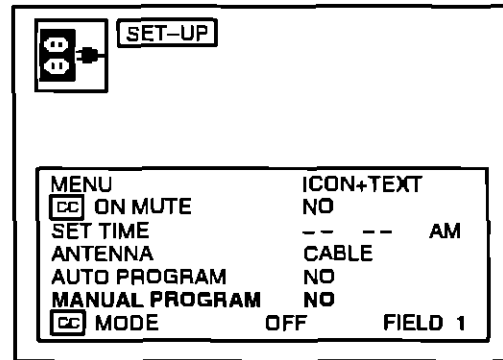6 Press the ACTION button twice after completion of Auto Programming to exit Set-Up Menu

NOTE: Channel numbers with signal present will turn blue which indicates stored in Channel Scan Memory.
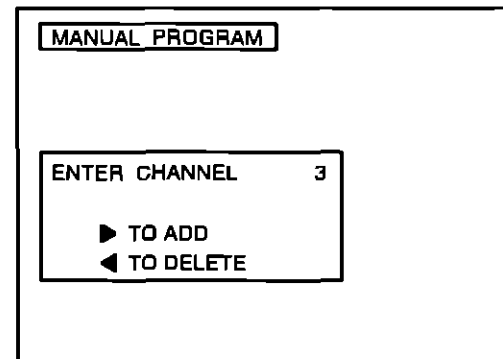
Set-Up Features (cont.)
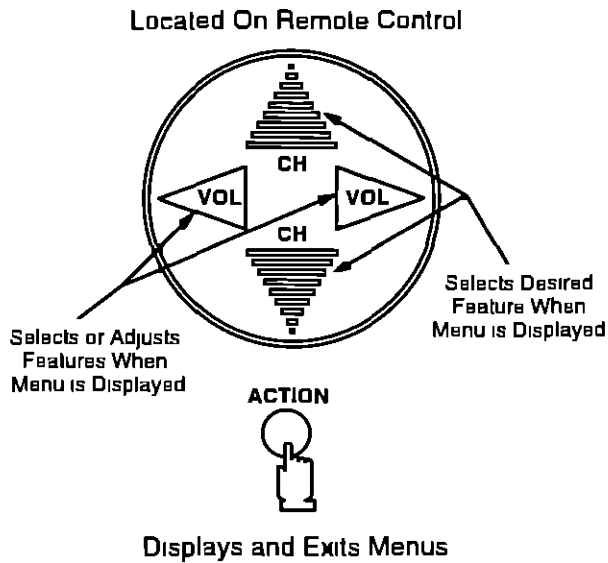
Manual Program – This feature allows you to select which channels are placed into Channel Scan Memory Press the CHANNEL (CH) UP/DOWN button and only those channels will be accessed

Located On Remote Control

CH

VOL   VOL

CH

Selects Desired
Feature When
Menu is Displayed

Selects or Adjusts
Features When
Menu is Displayed

ACTION

Displays and Exits Menus

1   Press the ACTION button to display the Main Menu
2   Press the CH DOWN and VOL RIGHT buttons to select the Set-Up Icon
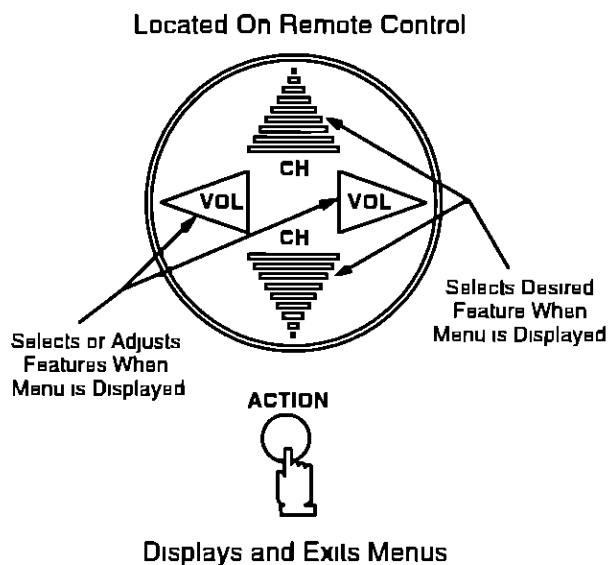3   Press the ACTION button to display the Set-Up Menu

```
┌─────────────────────────────────────┐
│ ┌──┐  ┌─────────┐                    │
│ │██│  │ SET-UP  │                    │
│ │██│──└─────────┘                    │
│ └──┘                                 │
│                                      │
│  ┌─────────────────────────────────┐│
│  │ MENU              ICON+TEXT      ││
│  │ [CC] ON MUTE      NO             ││
│  │ SET TIME          -- --    AM    ││
│  │ ANTENNA           CABLE          ││
│  │ AUTO PROGRAM      NO             ││
│  │ MANUAL PROGRAM    NO             ││
│  │ [CC] MODE         OFF     FIELD 1││
│  └─────────────────────────────────┘│
└─────────────────────────────────────┘
```

4   Press the CH DOWN button to select "MANUAL PROGRAM"
5   Press the VOL LEFT/RIGHT button to display the Manual Programming Menu

```
┌─────────────────────────────────────┐
│ ┌─────────────────┐                  │
│ │ MANUAL PROGRAM  │                  │
│ └─────────────────┘                  │
│                                      │
│  ┌─────────────────────────────────┐│
│  │ ENTER CHANNEL          3         ││
│  │                                  ││
│  │  ▶ TO ADD                        ││
│  │  ◀ TO DELETE                     ││
│  └─────────────────────────────────┘│
│                                      │
└─────────────────────────────────────┘
```

6   Use the CH UP/DOWN button or the Remote Keypad (0 through 9 buttons) to select channels
7   Press the VOL RIGHT button to add channel(s) to memory (Blue) Press the VOL LEFT button to delete channels from memory (Yellow).
8   Repeat steps 6 and 7 to continue adding or deleting channels.
9   Press ACTION button twice to exit menus
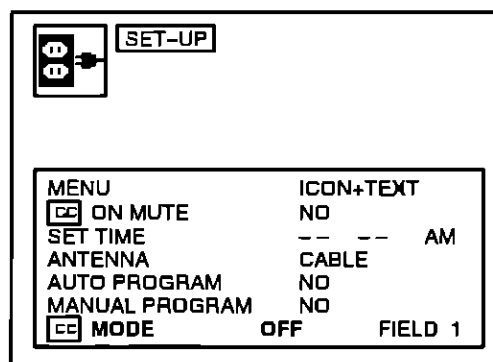
Set-Up Features (cont.)

Located On Remote Control

Selects Desired
Feature When
Menu is Displayed

Selects or Adjusts
Features When
Menu is Displayed

ACTION

Displays and Exits Menus

CC Mode

This Receiver has a built-in decoder that provides a visual depiction of the audio portion of a television program in the form of written words across the screen (white or colored letters on a black background) It allows the viewer to read the dialogue of a television program or other information

1 Press the ACTION button to display the Main Menu
2 Press the CH DOWN and VOL RIGHT buttons to select the Set-Up Icon
3 Press the ACTION button to display the Set-Up Menu

MENU	ICON+TEXT	
CC ON MUTE	NO	
SET TIME	-- --	AM
ANTENNA	CABLE	
AUTO PROGRAM	NO	
MANUAL PROGRAM	NO	
CC MODE	OFF	FIELD 1

4 Press the CH DOWN button to select "CC MODE"
5 Press the VOL RIGHT button to select OFF, CAP C1, TEXT C1, CAP C2, or TEXT C2

- **CAPTION OFF** – Recommended mode when you do not wish to view Closed Caption

- **CAPTION C1** – For video related information that can be displayed (up to four (4) lines of script strategically placed on the television screen so that it does not obstruct relevant parts of the picture) Script can be in any language

- **TEXT C1** – Blanks out a large portion of the picture on the television screen, and displays program guide or any other information currently being transmitted

- **CAPTION C2** – Another mode used for video related information that can be displayed (up to four (4) lines of script strategically placed on the television screen so that it does not obstruct relevant parts of the picture)

- **TEXT C2** – Another mode which displays information and blanks out a large portion of the picture on the television screen

6 Press the CH DOWN button to select the Field position
7 Press the VOL LEFT/RIGHT button to select "FIELD 1" or " FIELD 2"
8 Press ACTION button twice to exit menus

---

Helpful Hints:

- Closed Caption information may be transmitted on either or both Caption Fields

- Most Closed Caption information is transmitted on Field 1 in Cap C1 Mode

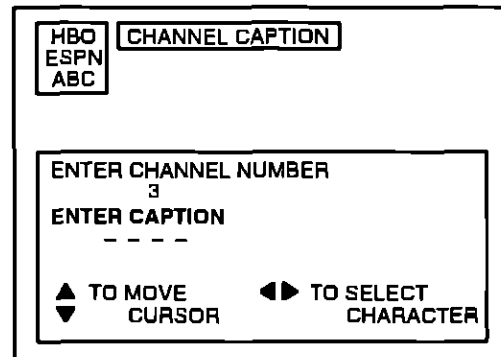- De-select Text mode if large portion of the picture is blanked out

Channel Caption

Located On Remote Control

Selects or Adjusts
Features When
Menu is Displayed

Selects Desired
Feature When
Menu is Displayed

ACTION

Displays and Exits Menus

Channel Caption (Station Identifier)

This feature allows you to enter the call names of up to 30 stations into memory (using up to four (4) characters for each station) The call name will then display along with the channel number when changing channels or pressing RECALL
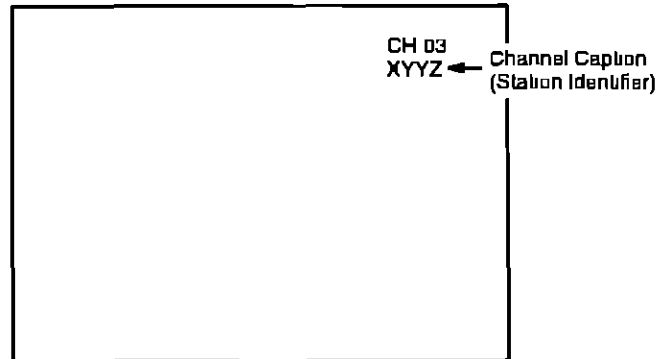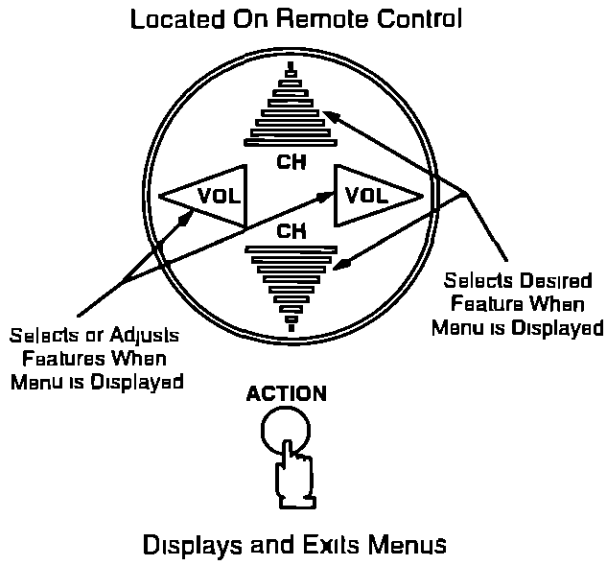
CH 03
XYYZ ◄— Channel Caption
(Station Identifier)

1   Press the ACTION button to display the Main Menu
2   Press the CH DOWN and VOL RIGHT buttons to select the Channel Caption Icon
3   Press the ACTION button to display the Channel Caption Menu


```
HBO   CHANNEL CAPTION
ESPN
ABC


ENTER CHANNEL NUMBER
         3
ENTER CAPTION
   - - - -


▲ TO MOVE       ◄► TO SELECT
▼    CURSOR            CHARACTER
```

4   Press the VOL LEFT/RIGHT button, or use the Remote Control Keypad, to enter channel number you wish to assign a Station Identifier
5   Press the CH DOWN button to select "ENTER CAPTION"
6. Press the VOL LEFT/RIGHT button to select first character in Station Identifier Then press the CH DOWN button to move cursor to the second position and repeat until the complete Station Identifier is entered (up to four (4) characters)
7   Press the CH UP/DOWN button to select "ENTER CHANNEL NUMBER" Then repeat steps 4 through 6 to continue adding Channel Station Identifier(s)
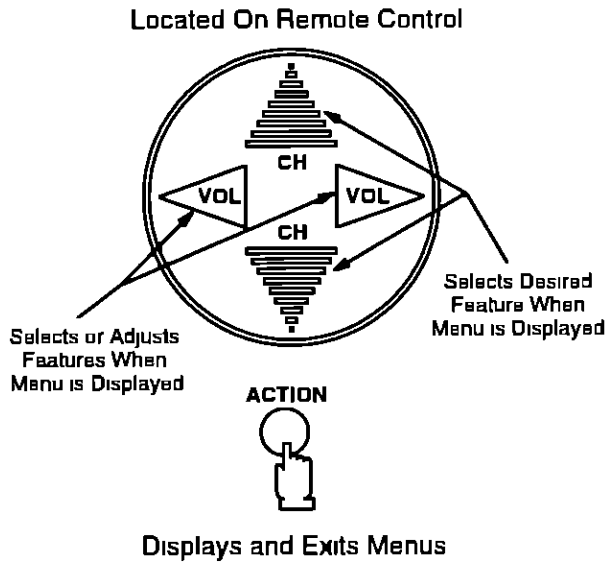8   Press ACTION button twice to exit menus

NOTE: To delete a Channel Caption (Station Identifier) from memory all four character positions must display dash mark (–)

Helpful Hints:

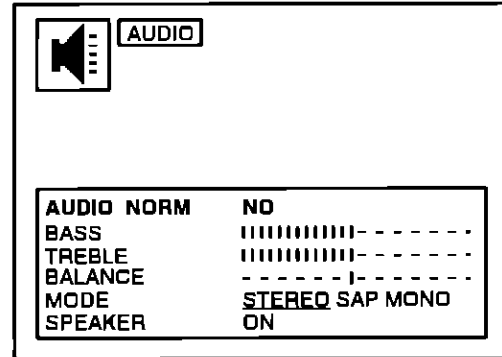When the maximum amount of station identifiers are entered, "FULL" will be displayed in the characters position

---

– 23 –

Audio Adjustments

- Audio Norm
- Bass
- Treble
- Balance
- (Audio) Mode
- [TV] Speaker

Located On Remote Control

Selects Desired
Feature When
Menu is Displayed

Selects or Adjusts
Features When
Menu is Displayed

ACTION

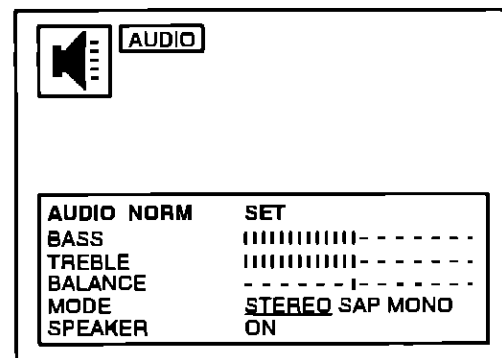Displays and Exits Menus

Bass, Treble, and Balance Adjustment

1 Press the ACTION button to display the Main Menu
2 Press the CH DOWN and VOL RIGHT buttons to select the Audio Icon
3 Press the ACTION button to display the Audio Adjustment Menu

AUDIO NORM	NO
BASS	lllllllllllll-------
TREBLE	lllllllllllll-------
BALANCE	-------l-------
MODE	STEREO SAP MONO
SPEAKER	ON

4 Press the CH UP/DOWN button to select BASS, TREBLE, or BALANCE
5 Press the VOL LEFT/RIGHT button to adjust for desired audio response
6 Repeat steps 4 and 5 for remaining Audio functions
7 Press ACTION button twice to exit menus

Audio Norm – This feature is used to reset Bass, Treble and Balance back to a factory preset level

1 Press the ACTION button to display the Main Menu
2 Press the CH DOWN and VOL RIGHT buttons to select the Audio Icon
3 Press the ACTION button to display the Audio Adjustment Menu

AUDIO NORM	SET
BASS	lllllllllllll-------
TREBLE	lllllllllllll-------
BALANCE	-------l-------
MODE	STEREO SAP MONO
SPEAKER	ON

Helpful Hints:

BASS – To increase or decrease the Bass response
TREBLE – To increase or decrease the Treble response
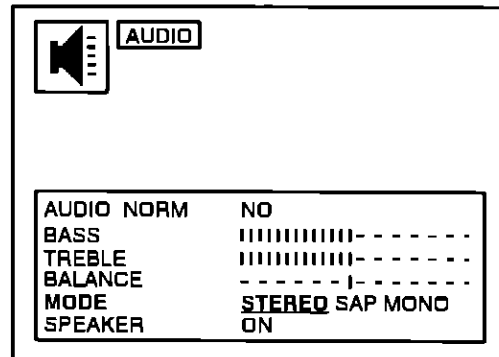**BALANCE** – To emphasize the Right and Left Speaker's volume

4 Press the VOL LEFT/RIGHT button to select "SET" to Normalize Bass, Treble, and Balance
5 Press ACTION button twice to exit menus

Audio Adjustments (cont.)

Located On Remote Control

Selects or Adjusts
Features When
Menu is Displayed

Selects Desired
Feature When
Menu is Displayed

ACTION

Displays and Exits Menus
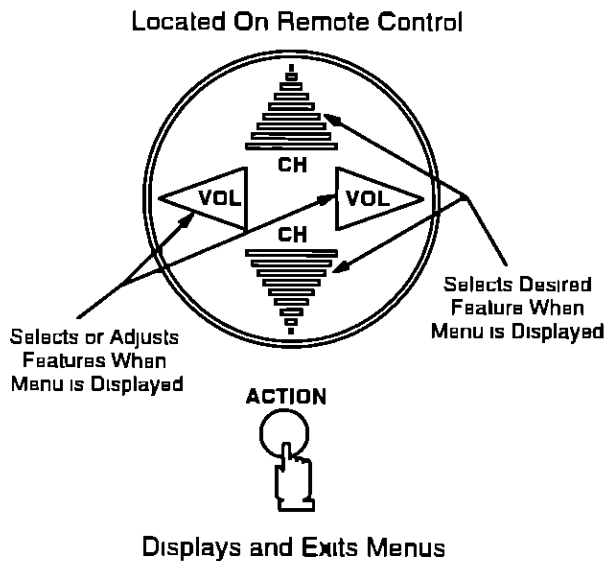
Audio Mode Selection
(Stereo/Sap/Mono)

When Audio is broadcast in Stereo or SAP an ON Screen display will appear on initial "Turn On" and "Channel Change" The available choices will be indicated in red

1 Press the ACTION button to display the Main Menu
2 Press the CH DOWN and VOL RIGHT buttons to select the Audio Icon
3 Press the ACTION button to display the Audio Adjustment Menu

```
┌─────────────────────────────────────────┐
│  ┌──────┐ ┌───────┐                      │
│  │ ◀┃ ▤ │ │ AUDIO │                      │
│  └──────┘ └───────┘                      │
│                                          │
│                                          │
│  AUDIO NORM   NO                         │
│  BASS         IIIIIIIIIIIII- - - - - -   │
│  TREBLE       IIIIIIIIIIIII- - - - - -   │
│  BALANCE      - - - - - - I- - - - - -   │
│  MODE         STEREO SAP MONO            │
│  SPEAKER      ON                         │
└─────────────────────────────────────────┘
```

4 Press the CH UP/DOWN button to select "MODE"
5 Press the VOL LEFT/RIGHT button to select Stereo, SAP (Second Audio Programming) or Mono The selected mode will be underlined
6 Press ACTION button twice to exit menus

Helpful Hints:

STEREO – Two channel Audio reception

SAP – Second Audio Programming (Typically used for bilingual audio)

MONO – Use when stereo signal is weak.

Audio Adjustments (cont.)

Located On Remote Control

Selects or Adjusts
Features When
Menu is Displayed

Selects Desired
Feature When
Menu is Displayed

ACTION

Displays and Exits Menus
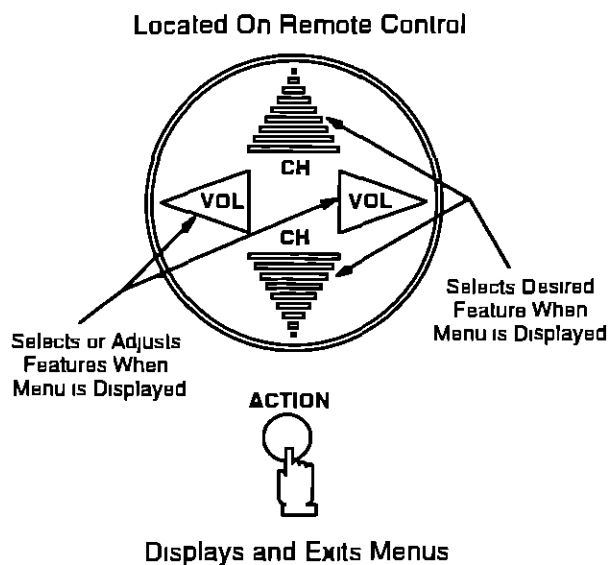
[TV] Speaker – This feature is used to turn the internal speakers "ON" or "OFF", when the Receiver is connected to an External Audio Amplifier

1 Press the ACTION button to display the Main Menu
2 Press the CH DOWN and VOL RIGHT buttons to select the Audio Icon
3 Press the ACTION button to display the Audio Adjustment Menu

AUDIO NORM	NO
BASS	IIIIIIIIIIIIII- - - - - -
TREBLE	IIIIIIIIIIIIII- - - - - -
BALANCE	- - - - - -I- - - - - - -
MODE	STEREO SAP MONO
SPEAKER	ON
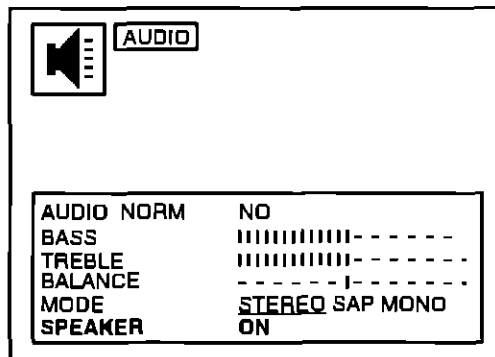
4 Press the CH UP/DOWN button to select "SPEAKER"
5 Press the VOL LEFT/RIGHT button to select Speaker "ON" or "OFF"
6 Press ACTION button twice to exit menus

Video Input

Located On Remote Control

Selects Desired
Feature When
Menu is Displayed

Selects or Adjusts
Features When
Menu is Displayed

ACTION

Displays and Exits Menus
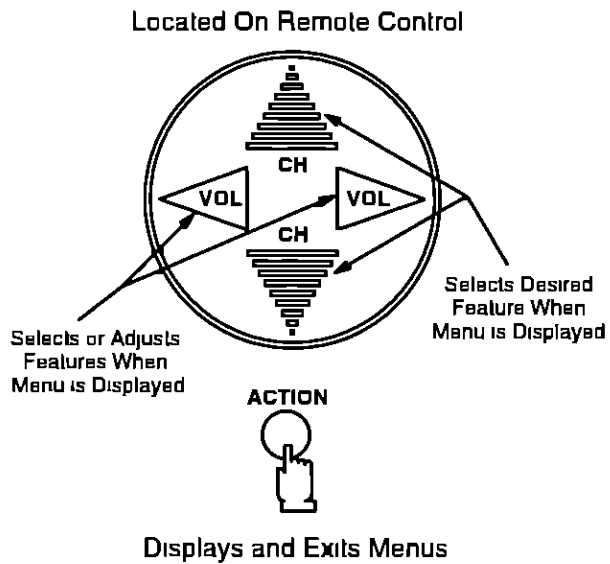
Video Input – This feature is used to select TV or Video Input

1   Press the ACTION button to display the Main Menu
2   Press the VOL RIGHT button to select the Input Icon
3   Press the ACTION button to display the Input Select Menu
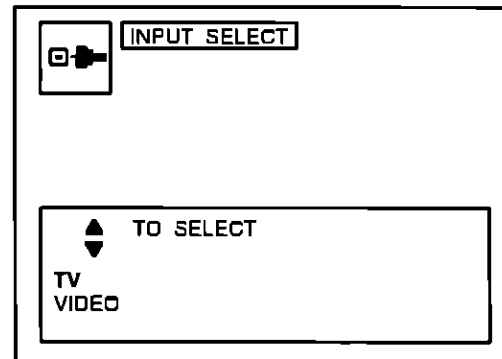
4   Press the CH UP/DOWN button to select "TV"or "VIDEO"

NOTE: The Game Guard feature must be deactivated before selecting the Video Input

Programming The Universal Remote Control (VCR)

Remote Control

Preferred Procedure – Code Known
Programming Universal Remote Using Infra–Red Access Codes for VCRs
- Determine brand of VCR
- Identify code(s) associated with the brand in the infra–red code index for VCRs (located in this manual)

Procedure
1. Press and hold VCR POWER button down on Universal Remote
2. Enter two digit code using keyboard "0 through 9" buttons. The Universal Remote is now programmed

NOTE: Some brands have multiple codes. Release VCR POWER button, then repeat procedure using each code listed until VCR responds correctly

Alternate Procedure – Code Unknown
Programming Universal Remote Using the "Sequence Method" for VCRs
- Confirm VCR is plugged in and operating properly, then turn OFF

Procedure
1. Press and hold the VCR POWER button down on Universal Remote
2. Press VOL RIGHT button repeatedly. Check for the VCR to turn ON after each press. Stop pressing the button when the VCR turns ON. The proper infra–red code has now been accessed

NOTE.
1. It may take several attempts before the correct code is found
2. The VOL LEFT button can be used to return to a code that was accidently passed by
3. Some Remote Controls may have unique operating functions for some buttons. For Example The POWER button may only turn the VCR OFF as opposed to both ON and OFF. It will then be necessary to modify the procedure. Turn the VCR ON and repeatedly press the VOL RIGHT button until the VCR turns OFF

Infra–Red Code Index For VCRs

VCR Brand	Code(s)	VCR Brand	Code(s)
Audio Dynamics	14, 16	NEC	02, 14, 16, 30
Broksonic	10	Panasonic	00, 01
Canon	00, 01	Pentax	05
Citizen	09	Philco	00, 29
Craig	12	Philips	00, 29
Curtis Mathes	00, 08, 15	Pioneer	05
DBX	14, 16	Quasar	00, 01
Emerson	10, 20, 34, 35, 36, 37	RCA	05, 07, 08, 28, 35
Fisher	12, 18, 19	Realistic	00, 02, 06, 12, 15
Funai	15	Samsung	07, 32
GE	00, 07, 08, 32	Sanyo	02, 12
Goldstar	09	Scott	04, 13, 33, 36
Hitachi	05, 35, 36	Sears	02, 05, 18, 19
Instant Replay	00	Sharp	06, 24
JCPenney	00, 02, 05, 14, 16, 30	Sony	17, 26, 33, 34
JVC	02, 14, 16, 30	Sylvania	00, 29
Kenwood	02, 14, 16, 30	Symphonic	15
Magnavox	00, 29	Tashiko	09
Marantz	02, 14, 16, 29, 30	Tatung	30
Marta	09	Teac	15, 30
Memorex	00, 12	Teknika	21
MGA	04, 27	Toshiba	05, 13
Minolta	05	Vector Research	14, 16
Mitsubishi	04, 27	Video Concepts	14, 16
Montgomery Ward	06	Wards	06
Multitech	07, 15, 32	Yamaha	02, 14, 16, 30
		Zenith	11, 17

NOTE: The Universal Remote Control Memory is limited. Some models of VCRs may not operate. The Universal Remote Control is not designed to control all features that are available in all models
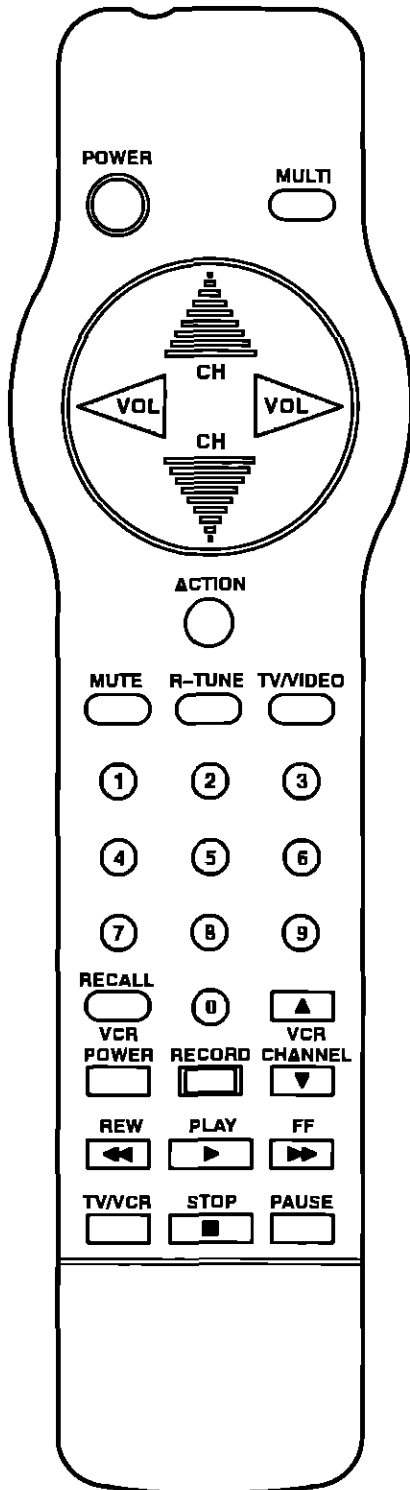
Optional Equipment Connection and Operation

Video/Audio Through Out Connections

The input and output terminals located on the back of the Monitor/Receiver directly pass the input signals through the output terminals, so you may monitor or record the external Video/Audio information

NOTE: INPUT and OUTPUT terminals will operate whether the Monitor/Receiver is ON or OFF

Operation:

1. Connect an external Video/Audio source to the video/audio input terminals on back of Monitor/Receiver
2. Connect a VCR or another Monitor/Receiver to the Video/Audio output terminals on back of the Monitor/Receiver
3. Operate optional equipment (VCR-VDP) as instructed in Optional Equipment manual

NOTE: Two RCA to BNC adaptors are supplied with the Monitor/Receiver if needed
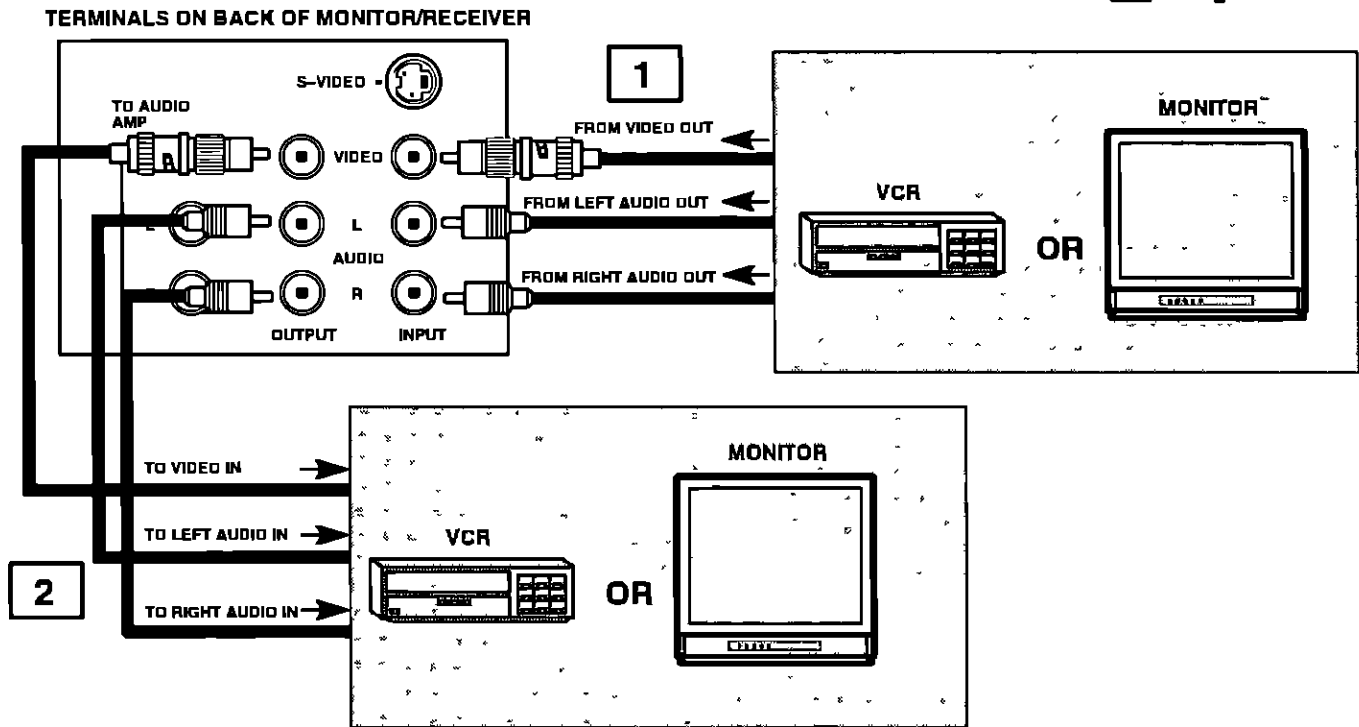
S-Video Connection

Operation:

1. Connect S-Video (YC) connector to S-Video Terminals
2. Make connections to L and R Input Audio jacks
3. Operate optional equipment (VCR-VDP) as instructed in Optional Equipment manual

NOTE: Connection of optional S-VIDEO jack automatically disconnects the Normal Video Input jack

-29-
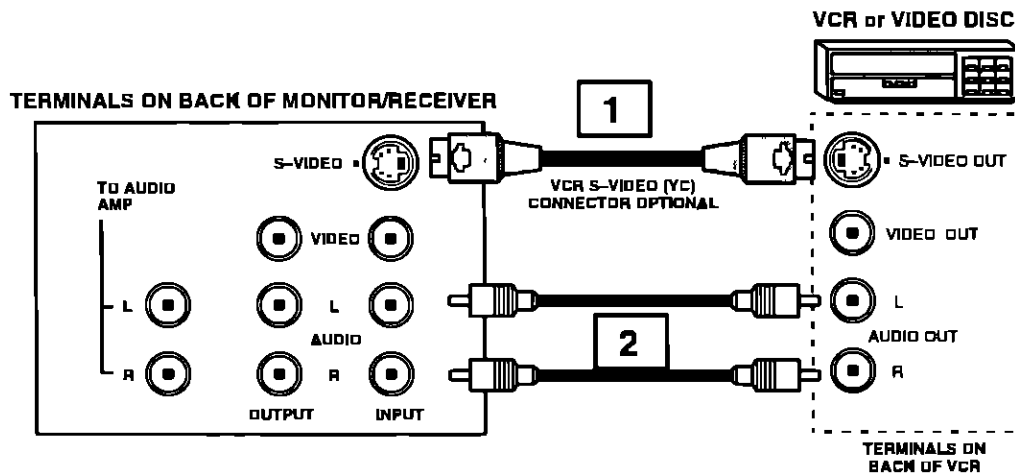
Optional Equipment Connection and Operation (cont.)

To Audio AMP Connection (Stereo)

- **To Audio AMP**

Connect to an external audio amp auxiliary input for monitoring sound through a stereo system

NOTE: "TO AUDIO AMP" terminals cannot be used for external speakers

Adjustment – When an audio amp is connected to "TO AUDIO AMP" terminals
1. Select INT SPEAKERS "ON" Mode (Refer to the Audio Menu [TV] Speakers section)
2. Set volume of audio amp to near minimum
3. Adjust volume of TV to desired listening level
4. Adjust volume of audio amp to match the level of TV
5. Select INT SPEAKERS "OFF" Mode (Refer to the Audio Menu [TV] Speakers section)
6. Audio bass, treble, balance, volume and mute can now be controlled by the TV Remote Control

TERMINALS ON BACK OF MONITOR/RECEIVER

To Auxiliary Input
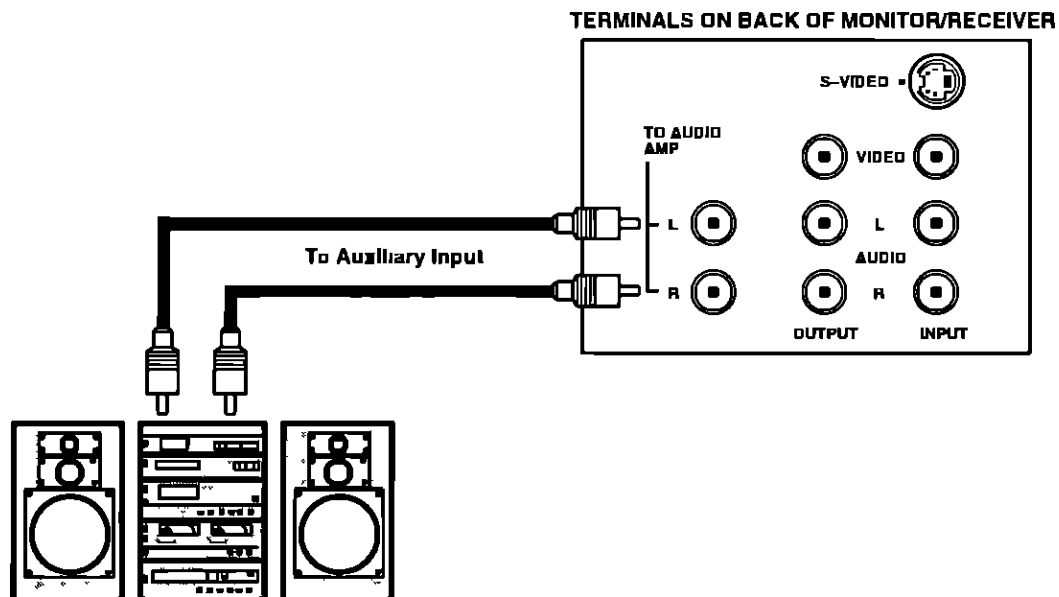
Care and Cleaning

Picture Tube (Turn set off)
Use a mild soap solution or window cleaner and a clean cloth DO NOT USE ABRASIVE CLEANERS Avoid excessive moisture and wipe dry

Plastic Cabinets
Wipe the cabinet with a soft cloth dampened with water or a mild detergent solution and wipe dry with a soft clean cloth Avoid excessive moisture Do not use benzene, thinners or other petroleum based cleaners.

Wood Cabinets
When dusting or polishing the cabinet, use a clean soft cloth and stroke straight with the grain An occasional coat of furniture polish will help preserve the finish Do not use benzene, thinners or other petroleum based cleaners Do not place objects made of plastic or rubber directly on top of the cabinet A chemical reaction could result causing permanent marring of the finish

Remote Control Transmitter
Do not use benzene, thinners or other petroleum based cleaners to clean the Remote Control Transmitter To clean, wipe with a soft cloth slightly moistened with a mild detergent and then wipe dry with a soft clean cloth

Instant-On Feature

This Monitor/Receiver has an Instant-On feature which automatically turns the unit ON when AC power is supplied
This feature initiates the Monitor/Receiver to turn ON automatically when using it with other equipment connected to a main power supply switch (Such as AC power strip or when plugged directly into the back of a computer)
Once initial power has been supplied and the Monitor/Receiver turns ON, the POWER switch located on the front of the Monitor/Receiver may be used to turn the Monitor/Receiver OFF and ON as desired

AC Power Strip Connection

Monitor/Receiver AC Plug

Computer Connection

AC Power Strip

Computer

Monitor/Receiver AC Plug
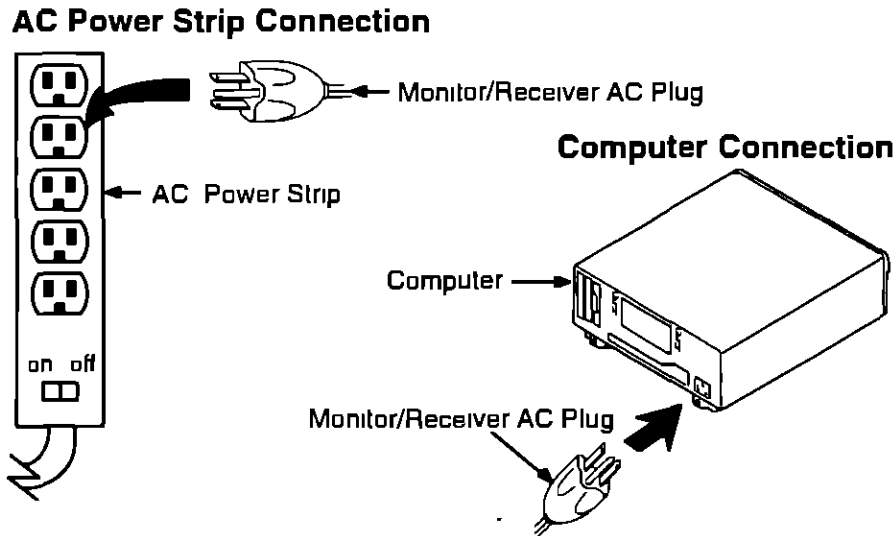
Procedure for Instant-On feature

With the Monitor/Receiver turned ON, press the ACTION and VOLUME LEFT buttons simultaneously, then press the ACTION and CH DOWN buttons simultaneously This will activate the Instant-On feature, to deactivate repeat procedure

NOTE: There will be no On-Screen display

To confirm if the Instant-On feature is activated Turn the Monitor/Receiver OFF, then unplug it and plug it back in The Monitor/Receiver should turn on automatically

Control Panel Lock Feature

Procedure for Control Panel Lock feature

With the Monitor/Receiver turned ON, press the ACTION and VOLUME RIGHT buttons simultaneously, then press the ACTION and CH UP buttons simultaneously This will activate the Keyboard Lock feature, to deactivate repeat procedure

NOTE: There will be no On Screen display

To confirm if the Control Panel Lock feature is activated, press any button other than the POWER button (the Power button is never disabled)

Power Loss

Prolonged power interruption causes the following features to reset to their factory preset state.

FEATURE	FACTORY PRESET STATE	FEATURE	FACTORY PRESET STATE
POWER	OFF	CLOCK	NOT SET
VOLUME	APPROX –1/3	SLEEP TIMER	NO/OFF
CHANNEL	CH 03	TIMER	NO/OFF
PROGRAM MEMORY	UNPROGRAMMED	ANTENNA (TV or CABLE)	CABLE
VIDEO MENUS	NORMALIZED	TV/VIDEO	TV
STEREO/SAP/MONO	STEREO		

Troubleshooting Chart

Before you call for service, determine the symptoms and make a few simple checks shown below

Symptoms		Check
Picture	**Sound**	
SNOWY PICTURE	NOISY SOUND	– INPUT CONNECTORS SEATED PROPERLY – EQUIPMENT CONNECTED TO INPUT CONNECTIONS – ANTENNA LOCATION AND/OR CONNECTION
INTERFERENCE	NOISY SOUND	– ELECTRICAL APPLIANCES, LIGHTS, CARS AND TRUCKS – DIATHERMY AND OTHER MEDICAL EQUIPMENT – VIDEO INPUT CONNECTOR SEATED PROPERLY
NORMAL PICTURE	NO SOUND	– VOLUME CONTROL SETTING – TV SPEAKERS (IF APPLICABLE) IN THE OFF MODE – AUDIO INPUT CONNECTOR SEATED PROPERLY – TRY ANOTHER CHANNEL
NO PICTURE	NO SOUND	– THAT AC POWER LINE IS PLUGGED INTO AC OUTLET – BRIGHTNESS AND AUDIO CONTROLS SET PROPERLY – VIDEO AND AUDIO INPUT CONNECTORS SEATED PROPERLY – TRY ANOTHER CHANNEL
NO COLOR	NORMAL SOUND	– COLOR CONTROL SETTINGS – TRY ANOTHER CHANNEL
BLUE PICTURE	NO SOUND	– MONITOR/RECEIVER IN VIDEO MODE WITH NO SIGNAL
BLACK BOX IN PICTURE	SOUND	– CC (CLOSED CAPTION) IN TEXT MODE – SELECT CLOSED CAPTION OFF MODE TO ELIMINATE BLACK BOX

Should this unit turn ON momentarily and then turn OFF, or fail to operate, unplug the AC cord and contact your Authorized Servicer for repairs

Panasonic ®

BROADCAST AND TELEVISION SYSTEMS

PANASONIC BROADCAST AND TELEVISION SYSTEMS COMPANY

Division of Matsushita Electric Corporation of America

Executive Office

One Panasonic Way, Secaucus, New Jersey, 07094 (201) 348–7000

BTS Division Executive Office, One Panasonic Way, Secaucus, New Jersey 07094 (201) 348–7000

GSA Order Department, One Panasonic Way, Secaucus, New Jersey 07094 (201) 348–7860

Eastern Regional Sales Office, Panasonic BTS, 43 Hartz Way, Secaucus, New Jersey 07094 (201) 348–7620

Midwest Regional Sales Office, Panasonic BTS, 1707 North Randall Road, Elgin, Illinois 60123 (847) 468–5200

Southeast Regional Sales Office, Panasonic BTS, 1854 Shackleford Court, Suite 115, Norcross, Georgia 30093 (404) 717–6841

Southwest Regional Sales Office, Panasonic BTS, 4500 Amon Carter Boulevard, Fort Worth, Texas 76155 (817) 685–1117

Western Regional Sales Office, Panasonic BTS, 6550 Katella Avenue, Cypress, California 90630 (714) 373–7275

Northwest Regional Sales Office, Panasonic BTS, The AGC Building, 1200 Westlake Avenue North, Suite 508, Seattle, WA 98109 (206) 285–8863

MATSUSHITA ELECTRIC OF CANADA LIMITED

5770 Ambler Drive, Mississauga, Ontario, L4W 2T3

PANASONIC SALES COMPANY

San Gabriel Industrial Park, 65th Infantry Ave., KM 9 5, Carolina, Puerto Rico 00630