

IFICATIONS

Input:	120V, 60Hz	Receiving Channels:	
Consumption:	115 Watts	VHF	2-13
Construction:	IC Solid state	UHF	14-69
Tube:	25" (measured diagonally)	CATV	01-97 (5A)-(A-3)
Power Output Rating:	1.5 Watts		98-99 (A-2)-(A-1)
Screen:	1.5" x 2.7" Full Range, 8 ohm		14-22 (A)-(I)
Channels:	181 Channel, Quartz PLL		23-36 (J)-(W)
Frequency Synthesized			37-65 (AA)-(FFF)
Control:	Infrared, Direct Access,		66-125 (GGG)-(125)
	2 x AAA batteries	Antenna Input Impedance:	
		75 ohm (VHF/UHF/CATV)	
		Coaxial Input	
Dimensions:			
	24 5/16" (W) x 19 11/16" (D) x 20 11/16" (H)		
Weight:			59.9 lbs

SORIES

ontrol

Memorex®

ADDITIONAL SET-UP OR OPERATING ASSISTANCE PLEASE CALL:
1-800-919-3647

FOR CUSTOMER SERVICE PLEASE CALL OR WRITE TO:

Memcorp Warranty Service

7145 West 20th Ave

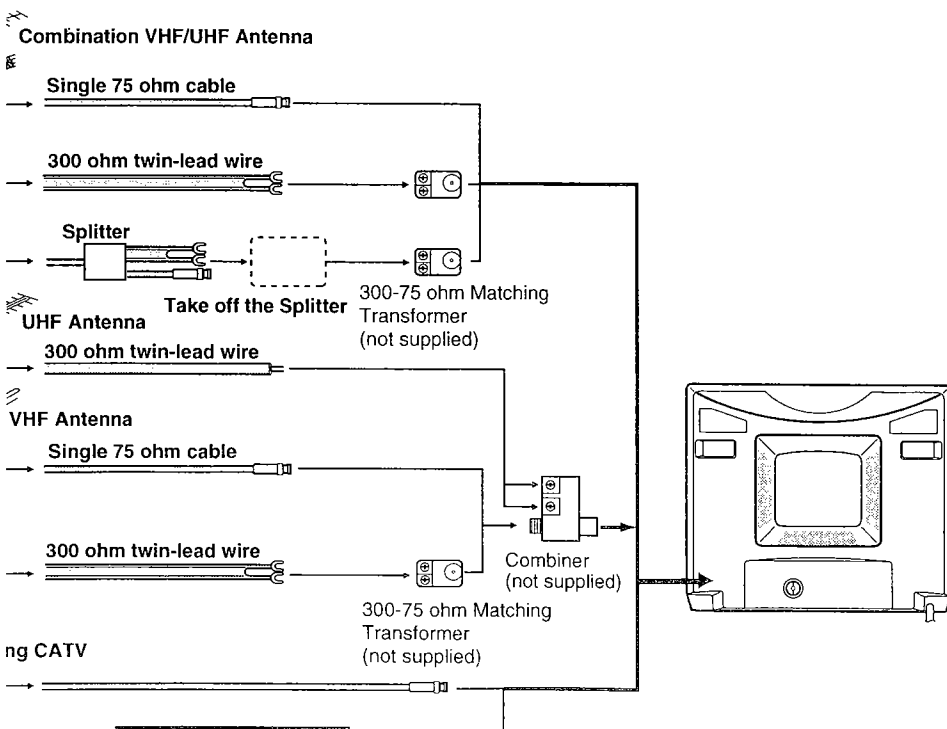
Hialeah, FL 33014

800-919-3647

K

Printed in Thailand

ANNA/CATV CONNECTIONS



ENGLISH

OWNER'S MANUAL

Memorex®

25" COLOR TELEVISION

MT2251

CAUTION

Changes or modifications not expressly approved by the party responsible for compliance with the FCC Rules could void the user's authority to operate this equipment.

ATTENTION

For your protection in the event of theft or loss of this product, please fill in the information listed below which is for your own personal records.

Date of Purchase : _____
Serial No. : _____
Place of Purchase : _____

TV/CATV MODE SELECTION

When shipped from the factory, the TV/CATV menu option is set to the "CATV" (Cable Television) mode. If not using CATV, set this menu option to "TV" mode.

FEATURES

Quartz PLL Frequency Synthesized Tuning System - Electronically locks in and memorizes available channels for perfect reception.

181 Channel Tuner - The tuning system is capable of receiving all 68 VHF/UHF standard broadcast channels that are available in your area. When operating on a cable system, it can tune to the standard VHF channel frequencies plus up to 113 cable channel frequencies. The actual number of channels received depends upon channel reception in your area or your cable system.

On-Screen 3 Language Display - Consists of channel, sleep timer, volume level, muting, text/caption indicators and picture control adjustments. These can be displayed in English, Spanish or French.

Picture Adjustments Using The Remote Control - The On-Screen display allows precise remote control adjustment of BRIGHTNESS, COLOR, CONTRAST, SHARPNESS and TINT.

Sleep Timer - Operable from the remote control, this TV can be programmed up to 120 minutes to turn off automatically.

Memory Back Up - This system prevents loss of memorized channel selections in case a power interruption should occur.

V-Chip - The V-Chip function can rate a TV program or movie content. It allows you to set a restriction level.

Closed Captioned Decoder - Displays text captions or 1/3 of full screen text on the screen for hearing impaired viewers.

Combination VHF/UHF Antenna (Single 75 ohm cable or 300 ohm twin-lead wire)

Connect the 75 ohm cable from a combination VHF/UHF antenna to the antenna jack.
If your combination antenna has a 300 ohm twin-lead wire, use the 300-75 ohm matching transformer (not supplied).

Combination VHF/UHF Antenna (Separate VHF and UHF 300 ohm twin-leads)

Connect the UHF twin-lead wire to a combiner (not supplied). Connect the VHF twin-lead to the 300-75 ohm matching transformer (not supplied). Attach the transformer to the combiner. Attach the combiner to the antenna jack.

Separate VHF/UHF Antennas

Connect the 75 ohm cable from the VHF antenna and the UHF antenna twin-lead to a combiner (not supplied). Attach the combiner to the antenna jack.

NOTE: If your VHF antenna has a twin-lead wire, use the 300-75 ohm matching transformer (not supplied), then connect the transformer to the combiner.

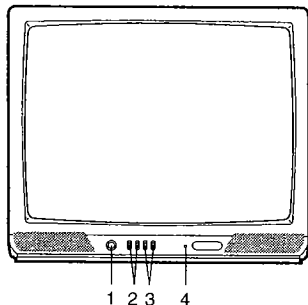
For Subscribers of Basic Cable TV Service

For basic cable service not requiring a converter/descrambler box, connect the CATV 75 ohm coaxial cable directly to the antenna jack on the back of the television.

For Subscribers of Scrambled Cable TV Service

If you subscribe to a cable service which requires the use of a converter/descrambler box, connect the incoming cable to the converter/descrambler box and connect the output of the box to the antenna jack on the back of the television. Follow the connections shown left. Set the television to the output of the converter/descrambler box (usually channel 3 or 4) and use the converter/descrambler box to select channels.

For Subscribers of Unscrambled Basic Cable



- Button 1** - Press to turn the TV on or off.
- Buttons 2 and 3** - Press to raise or lower the volume of the sound.
- Buttons 2 and 3** - Press the both buttons to display the On-Screen menu function.
- Buttons 2 and 3** - Press to select the desired setting during On-Screen operations.
- Buttons 2 and 3** - Press to select a higher or lower numbered channel set into memory.
- Buttons 2 and 3** - Press to enter or select information for On-Screen operations.
- Buttons 2 and 3** - Press to reset the On-Screen picture adjustments to their factory preset values.
- Buttons 2 and 3** - Signals from the Remote Control unit are received here.

ING LANGUAGE

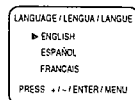
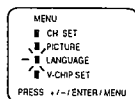
When display the channel number, on screen displays and picture adjustments on the English, Spanish or French.

Press the MENU button.

Press the SET + or - button to select the LANGUAGE option, then press the ENTER button.

Press the SET + or - button until the "►" indicator points to the desired language: English (ENGLISH), Spanish (ESPAÑOL) or French (FRANCAIS), then press the ENTER button.

Press the MENU button again.



When English or French is chosen, the Closed Caption indicators will be in the selected language. Closed Caption text will not be affected by the language selection.

PERATION

When on the TV, press the POWER button.

Volume can be adjusted to a desired level by pressing the VOL (VOLUME) ▲ or ▼ buttons.

The sound level will be indicated on the TV screen by GREEN BARS AND A NUMBER. As the sound level increases, so do the number of BARS AND THE NUMBER on the screen. The same is true for decreasing the level.

Move the TV/CATV menu option to the appropriate position. When shipped from the factory, this menu option is in the CATV setting. See "To Memorize Channels".

VHF/UHF channels
TV - CABLE TV channels

CHANNEL) ▲ and ▼ buttons

Press and release the CH (CHANNEL) ▲ or ▼ button. The channel automatically stops on the next channel set into memory. Press and hold the button down to change channels quickly.

For proper operation, before selecting channels, they should be set into the TV's memory. See "To Memorize Channels".

DIRECT CHANNEL SELECTION buttons (0-9) - Press these buttons to select a channel. The channel number will appear on the upper right corner of the TV screen. If an invalid channel number is selected, the display will revert to the original channel.

MODE DIRECT CHANNEL SELECTION - When the TV/CATV menu option is in the position, all channels can be instantly selected by using two buttons. (For example, to select channel 2, press "0", then "2". If you press only "2", channel selection will be delayed for a few seconds). For channels 10 and above, press the 2 digits in order.

NOTE FOR CHANNELS 1-19:

When only 1 or 2 buttons are pressed, the corresponding channel will be selected in 4 seconds.

TV mode direct channel selection -

When in the TV/CATV menu option is in the CATV position, channels can be selected as follows:

CLOSED CAPTION

WHAT IS CLOSED CAPTIONING?

This television has the capability to decode and display Closed Captioned television programs. Closed Captioning will display text on the screen for hearing impaired viewers or it will translate and display text in another language.

CLOSED CAPTIONING WITH A VCR

Closed Captioned programs can be recorded and played back on a VCR with the Closed Captioned text intact. The Closed Captioned text will disappear during Cue (Fast Forward Search), Review (Rewind Search) and Pause Modes or if the VCR tracking is not adjusted properly.

Captions: This Closed Caption Mode will display text on the screen in English or another language (depending on the setting of the Closed Captions CH. 1/2 button). Generally, Closed Captions in English are transmitted on Captions Channel 1 and Closed Captions in other languages are transmitted on Captions Channel 2.

Text: The Text Closed Caption Mode will usually fill 1/3 of full screen with a programming schedule or other information. After selecting a Closed Caption Mode, it will stay in effect until it is changed, even if the channel is changed. If the Captions signal is lost due to a commercial or a break in the signal, the Captions will reappear when the signal is received again. If the channels are changed, the Captions will be delayed approximately 10 seconds. The Captions will appear in places on the screen where they will least interfere with the picture, usually on the bottom of the screen. News programs will usually show three-line Closed Captions which scroll onto the screen. Most other shows provide two or three lined Captions placed near the character who is speaking so the viewer can follow the dialogue. Words in italics or underlined describe titles, words in foreign languages or words requiring emphasis. Words that are sung usually appear enclosed by musical notes. For television programs broadcasting with Closed Captions, look in your TV guide for the Closed Captions symbol (CC).

- When activating the Closed Captioned Decoder, there will be a short delay before the Closed Captioned text appears on the screen.
- Closed Captioned text is only displayed in locations where it is available.
- If no caption signal is received, no captions will appear, but the television will remain in the Caption Mode.
- Misspellings or unusual characters may occasionally appear during Closed Captioning. This is normal with Closed Captioning, especially with live programs. This is because during live programs, captions are also entered live. These transmissions do not allow time for editing.
- When Captions are being displayed, on-screen displays, such as volume and mute may not be seen or may interfere with Closed Captions.
- Some cable systems and copy protection systems may interfere with the Closed Captioned signal.
- If using an indoor antenna or if TV reception is very poor, the Closed Caption Decoder may not appear or may appear with strange characters or misspelled words. In this case, adjust the antenna for better reception or use an outdoor antenna.

SETTING V-CHIP

This TV is fitted with a V-CHIP controller which provides you with channel viewing access controls and restrictions.

- Press the SET + or - button to select the V-CHIP SET option, then press the ENTER button.
- Enter your password using the Direct channel selection buttons. In the event of entering incorrect password press the RESET button. Then press the ENTER button.
- Enter the same password for confirmation, then press the ENTER button.
- Press the SET + or - button to select the V-CHIP option. Press the ENTER button to select the ON.
- Press the SET + or - button to select the TV RATING or MOVIE RATING option. Press the ENTER button.
- Press the SET + or - button to select the desired rating for the applicable video or TV channel. Press the ENTER button.

TV RATING

SET - ↔ SET +
OFF ↔ TV-Y ↔ TV-Y7 ↔ TV-G ↔ TV-PG ↔ TV-14 ↔ TV-MA

TV-Y : all children
TV-Y7 : 7 years old and above
TV-G : childrens program
TV-PG : parental guidance
TV-14 : 14 years old and above
TV-MA : 17 years old and above

When you select TV-Y7, TV-PG, TV-14 or TV-MA, press the CALL button to show the contained rating. Press the SET + or - button to select the desired item you want. Press the ENTER button to select the OFF.

MOVIE RATING

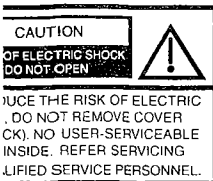
SET - ↔ SET +
OFF ↔ G ↔ PG ↔ PG-13 ↔ R ↔ NC-17 ↔ X

G : all ages
PG : parental guidance
PG-13 : parental guidance less than 13 years old
R : under 17 years old parental guidance suggested
NC-17 : 17 years old and above
X : adult only

- Press the MENU button three times to return to normal TV viewing.

NOTES:

- The V-Chip function is activated only on programs and tapes that have the rating signal.



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

IMPORTANT SAFEGUARDS

INSTRUCTIONS- All the safety and instructions should be read before operation.

RETAIN INSTRUCTIONS- The safety and instructions should be retained for future reference.

WARNINGS- All warnings on the unit and operating instructions should be read.

OPERATING INSTRUCTIONS- All operating instructions should be followed.

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

WARNING- Do not use attachments not recommended by the unit's manufacturer as they may cause hazards.

MOISTURE- Do not use this unit near, for example, near a bathtub, kitchen sink, or laundry tub, in a room with a wet floor, or near a swimming pool.

SAFETY- Do not place this unit on an unstable stand, tripod, bracket, or table. If it falls, it could cause serious injury, and damage to the unit. Use only with a stand, tripod, bracket, or table recommended by the manufacturer.

RETAIN TABLET CART WARNING (model provided by RETAC)

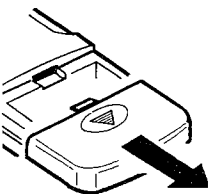


REMOTE CONTROL

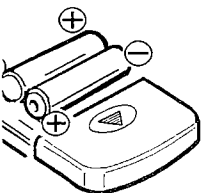
Before using the remote control transmitter, first install the batteries.

INSTALL BATTERIES

Remove the battery compartment cover.



Use two "AAA" (penlight size) batteries.

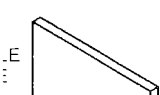


Replace the battery compartment cover.

POWER SOURCE

POWER SOURCE

For operation on AC, insert the AC cord plug into a 60Hz polarized AC outlet.



NOTES:

1. Never connect the AC line cord plug to other than the specified voltage (120V 60Hz). Use the attached power cord only.

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

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

8A. 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.

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

10. **POWER SOURCE-** This unit should be operated only from the type of power source indicated on the rating plate. If you are not sure of the type of power supply to your home, consult your appliance dealer or local power company. For units intended to operate from battery power, or other sources, refer to the operating instructions.

11. **GROUNDING OR POLARIZATION-** This unit 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. If your unit is equipped with a 3-wire grounding-type plug, a plug having a third (grounding) pin, this plug will only fit into a grounding-type power outlet. This too, 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.

12. **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 at plugs, convenience receptacles, and the point where they exit from the appliance.

13. **LIGHTNING-** To protect your unit 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 or cable system. This will prevent damage to the unit due to lightning and power line surges.

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

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

16. **OBJECT AND LIQUID ENTRY-** Do not push objects through any openings in this unit as they may touch dangerous voltage points or short out parts that could result in fire or electric shock. Never spill or spray any type of liquid into the unit.

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

18. **SERVICING-** Do not attempt to service this unit yourself as opening or removing cover may expose you to dangerous voltage or other hazards. Refer all servicing to qualified service personnel.

19. **DAMAGE REQUIRING SERVICE-** Unplug this unit from the wall outlet and refer servicing to qualified service personnel under the following conditions:

- a. When the power-supply cord or plug is damaged.
- b. If liquid has been spilled, or objects have fallen into the unit.
- c. If the unit has been exposed to rain or water.

- d. If the unit does not operate normally by following the operating instructions. Adjust only those controls that are covered by the operating instructions, as an improper adjustment of other controls may result in damage and will often require extensive work by a qualified technician to restore the unit to its normal operation.
- e. If the unit has been dropped or the cabinet has been damaged.
- f. When the unit exhibits a distinct change in performance, this indicates a need for service.

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

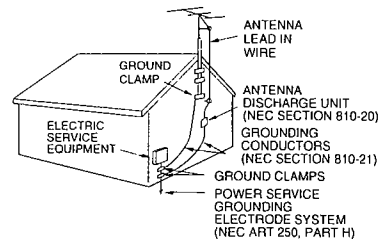
21. **SAFETY CHECK-** Upon completion of any service or repairs to this unit, ask the service technician to perform safety checks to determine that the unit is in proper operating condition.

22. **WALL OR CEILING MOUNTING-** The product should be mounted to a wall or ceiling only as recommended by the manufacturer.

23. **HEAT-** The product should be situated away from heat sources such as radiators, heat registers, stoves, or other products (including amplifiers) that produce heat.

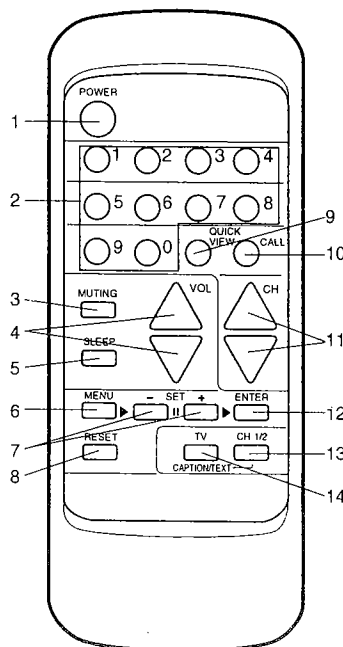
24. **NOTE TO CATV SYSTEM INSTALLER-** This reminder is provided to call the CATV system installer's attention to Article 820-40 of the NEC that provides guidelines for proper grounding and, in particular, specifies that the cable ground shall be connected to the grounding system of the building, as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

EXAMPLE OF ANTENNA GROUNDING AS PER NATIONAL ELECTRICAL CODE



NEC-NATIONAL ELECTRICAL CODE
S2898A

5. **SLEEP Button** - To set the TV to turn off after a preset amount of time, press the SLEEP button on the remote control. The clock will count down 10 minutes each time the button is pressed in the order of 120, 110, 100, ..., 20, 10, 0. After the sleep time is programmed, the display will disappear then reappear momentarily every ten minutes to remind you the sleep timer function is operating. To confirm the sleep time setting, press the SLEEP button once and the remaining time will be momentarily displayed. To cancel sleep time, press the SLEEP button repeatedly until the display turns to 0.
6. **MENU Button** - Press to display the On-Screen menu function.
7. **SET +/- Buttons** - Press to select the desired setting during On-Screen operations.
8. **RESET Button** - Press to reset the On-Screen picture adjustments to their factory preset positions.
9. **QUICK VIEW Button** - This button allows you to go back to the previous channel selected by just pressing the QUICK VIEW button. Press this button again to return to the channel you were watching.
10. **CALL Button** - When you press this button, the channel number tuned will appear on the upper right corner of the screen. Press the button again to remove display from the screen.
11. **CH (CHANNEL) ▲/▼ Buttons** - Press the ▲ button to change to a higher numbered channel set into memory. Press the ▼ button to change to a lower numbered channel set into memory.



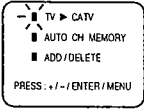
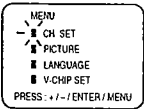
1. **POWER Button** - Press to turn the TV on. Press again to turn the TV off.
2. **Direct Channel Selection Buttons (0-9)** - Allows direct access to any channel.
3. **MUTING Button** - To turn off the sound.

AORIZE CHANNELS

ipped with a channel memory feature which allows channels to skip up or down
annel set into memory, skipping over unwanted channels.
ng channels, they must be programmed into the TV's memory. In addition to
nd UHF channels, this TV can receive up to 113 Cable TV channels. To use this
enna, set the TV/CATV menu option to the TV setting. When shipped from the
enu option is in the CATV setting.

ELECTION

- MENU button.
- SET + or - button until the indicator next to "CH SET" flash, then press the ENTER button.
- SET + or - button until the indicator next to "TV/CATV" flash.
- ENTER button to select the TV or CATV mode. The indicates the selected mode.



MENU button twice to return to normal TV viewing.
ow is typical of many cable system channel allocations.

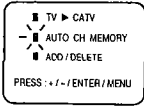
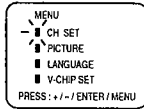
HART

this TV ding CATV channel										14	15	16	17	18	19	20	21	22
25	26	27	28	29	30	31				A	B	C	D	E	F	G	H	I
L	M	N	O	P	Q	R				32	33	34	35	36	37	38	39	40
43	44	45	46	47	48	49				50	51	52	53	54	55	56	57	58
GG	HH	II	JJ	KK	LL	MM				NN	OO	PP	QQ	RR	SS	TT	UU	VV
61	62	63	64	65	66	67				68	69	70	71	72	73	74	75	76
BBB	CCC	DDD	EEE	FFF	GGG	HHH				III	JJJ	KKK	LLL	MMM	NNN	OOO	PPP	QQQ
79	80	81	82	83	84	85				86	87	88	89	90	91	92	93	94
TTT	UUU	VVV	WWW	XXX	YYY	ZZZ				104	105	106	107	108	109	110	111	112
97	98	99	100	101	102	103				104	105	106	107	108	109	110	111	112
A-3	A-2	A-1	100	101	102	103				122	123	124	125	01				
115	116	117	118	119	120	121				122	123	124	125	SA				
115	116	117	118	119	120	121				122	123	124	125	SA				

ct your cable company to determine the type of cable system used in your area.

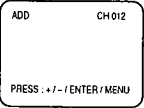
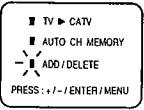
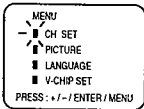
C CHANNEL MEMORY

- MENU button.
- SET + or - button until the indicator next to "CH SET" flash, then press the ENTER button.
- SET + or - button until the indicator next to "AUTO CH Y" begins to flash, then press the ENTER button. The begin memorizing all the channels available in your area.
- MENU button twice to return to normal TV viewing.



LETE CHANNELS

- MENU button.
- SET + or - button until the indicator next to "CH SET" flash, then press the ENTER button.
- SET + or - button until the indicator next to "ADD/" begins to flash, then press the ENTER button.
- desired channels to be memorized or deleted using Channel Selection buttons (10 keys, 0-9), the CH ▲ or or the SET + or - button.
- ENTER button to select ADD or DELETE.
- emorized channel was selected (step 4), the channel will be red. Press the ENTER button if you wish to ADD morized channel. The channel indicator will change to green when a channel is added and the channel will rized.
- orized channel was selected (step 4), the channel will be green.
- ENTER button if you wish to DELETE the channel from The channel indicator will change from green to red nnel is deleted.
- eps 4 and 5 for each channel to be added or deleted.



MENU button three times after adding or deleting all of d channels, to return to normal TV viewing.

ADJUSTING PICTURE

You can adjust the settings for color, sharpness, contrast, brightness and tint.

- Press the MENU button.
- Press the SET + or - button until the indicator next to "PICTURE" begins to flash, then press the ENTER button.
- Press the ENTER button repeatedly to select the item you want to adjust.
BRIGHTNESS → CONTRAST → COLOR → TINT → SHARPNESS
- Press the SET + or - button to adjust the setting.

	+	-
BRIGHTNESS	increase brightness	decrease brightness
CONTRAST	increase contrast	decrease contrast
COLOR	brilliant color	pale color
TINT	greenish color	reddish color
SHARPNESS	makes picture clearer	makes picture softer

TO RETURN TO INITIAL SETTING
Press the RESET button while the picture adjusting mode appears on-screen.

TROUBLESHOOTING GUIDE

Before requesting service, please refer to the following chart for the symptom and possible solution.

SYMPTOMS	POSSIBLE SOLUTIONS
TV does not operate	<ul style="list-style-type: none">Make sure the power cord is plugged in.Try another AC outlet.Power is off, check fuse or circuit breaker.Unplug unit for an hour, then plug it back in.
Poor sound or No sound	<ul style="list-style-type: none">Station or CATV experiencing problems, tune to another station.Check sound adjustments (Volume and Muting).Check for sources of possible interference.
Poor picture or No picture	<ul style="list-style-type: none">Station or CATV experiencing problems, tune to another station.Check antenna or CATV connections, adjust antenna.Check for sources of possible interference.Check picture control adjustments.
Poor reception on some channels	<ul style="list-style-type: none">Station or CATV experiencing problems, tune to another station.Station signal is weak, adjust antenna to receive weaker station.Check for sources of possible interference.
Poor color or no color	<ul style="list-style-type: none">Station or CATV experiencing problems, tune to another station.Make sure channels are set into memory.Check picture control adjustments.Check antenna or CATV connections, adjust antenna.Check for sources of possible interference.
Picture wobbles or drifts	<ul style="list-style-type: none">Station or CATV experiencing problems, tune to another station.Make sure channels are set into memory.CATV company is scrambling signal.Check antenna adjustment.
No CATV reception	<ul style="list-style-type: none">Check all CATV connections.Set TV/CATV menu option to the CATV mode.Station or CATV system problems, try another station.
Horizontal or diagonal bars on screen	<ul style="list-style-type: none">Check antenna connections, adjust antenna.Check for sources of possible interference.
No reception above channel 13	<ul style="list-style-type: none">Make sure TV/CATV menu option is in the appropriate mode.If using antenna, check UHF antenna connections.
No Remote operation	<ul style="list-style-type: none">Batteries are weak, dead or inserted incorrectly.Remote is out of range, move closer to TV within 15 feet.Make sure Remote is aimed at sensor.Confirm there are no obstructions between the Remote and the TV.Make sure the power cord is plugged in.
TV shuts off	<ul style="list-style-type: none">No broadcast on station tuned.Sleep Timer is set.Power interrupted.
Closed - Caption is not activated.	<ul style="list-style-type: none">TV station experiencing problems or program tuned is not closed captioned. Try another channel.Check CATV connection or VHF/UHF antenna, reposition or rotate antenna.Press TV/CAPTION/TEXT button to turn on the closed caption decoder.