

USER'S MANUAL

***CATV
CONVERTER***

OWNER'S MANUAL

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 grounding shall be connected to the grounding system of the building, as close to the point of cable entry as practical.

WARNING: To prevent fire or shock hazard, do not expose this product to rain or moisture. This unit is for indoor use 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 with 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.

Notice: The changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

Important Switches:

The channel output and IRC/HRC/STD switches have been preset at the factory to (3) and (STD) which covers most cable system in the U.S.A. If the settings are incorrect for your cable system, follow these instructions.

There are 2 switches on this converter that must be set correctly to insure proper operation. If you don't know what the proper setting should be, we recommend that you hook up the converter to the TV without any additional items such as VCR's, Laser Discs, etc. This will make the job of setting the switches much easier. After the correct settings are made, you can hook up your other equipment.

Channel Output Switch

1.CH-3/CH-4 output Switch is located on the back of the converter (see page 2); if your cable company broadcasts on channel 3(represents 80% of the country), then leave the switch on 3. If your cable company broadcasts on channel 4, then set the switch to channel 4.(If your cable company broadcasts on a channel other than 3 or 4, use whichever setting brings in the sharpest picture.)Your TV/VCR must be set to the same channel as this switch setting.

Carrier switch

2.Carrier (IRC/HRC/STD) switch: Most cable systems operate on carrier setting STD, but there are areas that operate on the HRC/IRC system. This information can normally be obtained from your cable company,. If you do not know which carrier setting you are on, start with the switch in the STD position. **If the picture is not received properly, even after fine tuning (see page 11 for fine tuning instructions), unplug the converter from the wall, set the switch to HRC, plug in the**

converter and try again. If this is incorrect, try IRC. Please note: The Carrier Switch is recessed and to adjust it you will need a plastic encased screwdriver.

Trouble Symptoms:

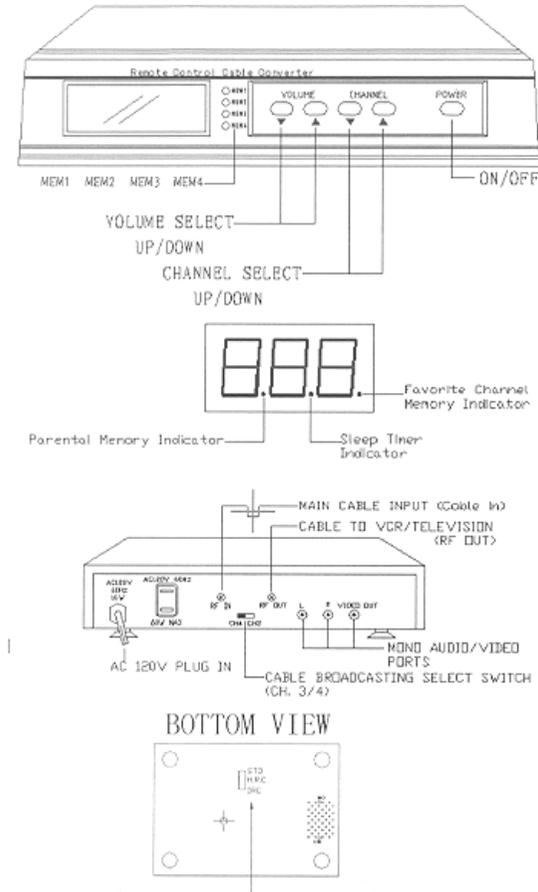
If your *CONVERTER* or television is on the wrong IRC/HRC/STD setting, you will have one or more of the following symptoms:*

1. Basic stations are grainy, snowy, the picture quality is very poor.
2. You have to fine tune every time you switch channels.
3. All channels come in except channel 5 and 6.
4. Only channel 5 and 6 come in.
5. Numerous channels are only received in black and white.

*See number (2) **Carrier Switch** above for the setting procedure.

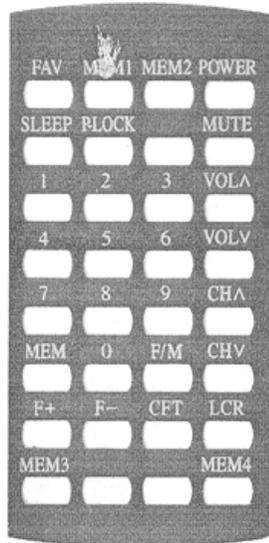
Note : If you television is carrier switchable make sure it is set to Standard (STD), Ant, or AIR. See your television manual.

CONVERTER CONTROLS, SWITCHES & DISPLY



The correct IRC/HRC/STD setting is crucial for the proper operation of your converter. The switch is recessed and you will need a plastic encased screwdriver when adjusting it.

REMOTE CONTROL BUTTONS & OPERATION



PWR/ON (Power-on/off):

This feature is common to both the converter and the remote control. Many late model television will not turn on unless the "power on" button on the television's remote control is used. They may also lose memory due to the power loss effect of a switched outlet. If your television loses memory because of this power loss, plug your television into a wall outlet instead of the *CONVERTER*.

Turning On

- If the converter is off, press the power button once.

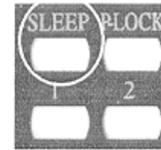
Turning Off

- If the converter is on, press the power button once.



SLEEP TIMER:

The Sleep Timer automatically turns off the *CONVERTER* and TV at a predetermined length of time. Maximum sleep time is 150 minutes. If you press the sleep button within 2 seconds of the previous press, the time will decrease by 30 minutes. Time remaining on the sleep timer, which counts down in one minute increment, may be viewed by pressing the SLEEP button once. The channel display will revert back to the channel number after 2 seconds. If the timer is allowed to automatically reach (000), the converter and TV(if plugged into the switched outlet) will turn off.



Activating Sleep Timer

- Press the SLEEP button once to display 150 minutes
- Each successive press will decrease time by 30 minutes



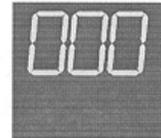
Time remaining before automatic turn off

- Press SLEEP button once
- Channel display will resume after 2 seconds

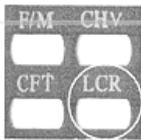


Turning off Sleep Timer before shutdown

- Pressing the SLEEP button until (000) is displayed, will deactivate the sleep timer.

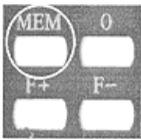


Note: A period displayed to the LEFT of the third digit of the channel number indicates sleep timer is activated.



LAST CHANNEL RECALL(LCR):

Push the LCR button will take you back to the channel you previously viewing. **Example:** If you are watching a foot game on channel 65 and you change to channel 45 to catch up on the weather, simply push CLR to go back to the football game.



MEMORY(MEM, aka: Favorite Channel Memory):

The converter incorporates a non-volatile memory for saving you favorite channels. If power is even lost , your favorite channel will be saved for when power is regained.

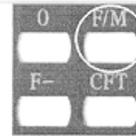


Setting Memory Function

- Select the channel to be put into memory.
- Press the F/M button , then F+ button within 3 seconds.



TO select the channel currently store in memory, press FAV. A favorite channel will be displayed with a dot on the lower right corner of the display. Use channel ▼/▲ to up/down select favorite channels.



Deleting Channel from Memory

- Select the channel in memory you want to delete, it should have a period to the right of the third digit of the channel numbers.
- Press the F/M button, then F- button within 3 seconds
- The period to the right of the channel numbers should disappear indicating the channel was removed from the memory.

FAVORITE CHANNELS

Set Up a Favorite Channel

- Select the channel to be set up as a favorite channel.
- Press F/M key, then F+ key within 3 seconds to store this channel in the favorite memory.

Delete a Favorite Channel

- Press FAV key to be in favorite channel mode.
- Select the channel to be delete from the favorite channel memory.
- Press F/M key, then F- key within 3 seconds to delete this channel from the favorite memory.

Select Favorite Channels

- Press FAV key to be in favorite channel mode. On the display, the FAV indicator turns on for favorite channels
- Use CHANNEL▲, or▼key to select favorite channels.
- Press FAV key again and exit the favorite channel mode. The indicator turns off.



PARENTAL LOCK-OUT(P-LOCK):

It is used to restrict viewing to selected channels.



The *CONVERTER*'s intelligent memory is nonvolatile, allowing you locked channels and secret passcode to remain intact even if power is lost.

Programming Parental Lock-Out memory

- Select the channel to be put into memory.
- Press the P-LOCK button, then F+ button within 3 seconds.

NOTE: Parental Lock-Out does not have to be deactivated to place individual channels into memory. If Parental Lock-Out was not deactivated when the channel was added, the television will exhibit snow on the channel just entered until Parental Lock-Out is deactivated.

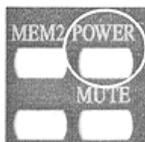


The channel display will change from "LOC" to "A.cc" and a period is displayed to the left of second channel digit to indicate the channel has been saved. If the display does not show "A.cc" or a period indication, the channel was not memorized. Try again.

Activating Parental Lock-Out for restricted viewing

- Turn off the *CONVERTER* for approximately 1 second, then back on

All channels in Parental Lock-Out memory are now restricted. If Parental Lock-Out is deactivated, adding a channel to memory reactivates it.



Deactivating Parental Lock-Out for unrestricted viewing



- Press the P-lock button
- Enter your Parental Lock-Out code (Factory Default is 2999.)
- Press MEM button
- All Parental Lock-Out channels are deactivated and available for viewing

The channel display will show "1, 2, 3, 4" during passcode entry to maintain confidentiality. Once the proper code is entered, all locked channels are unlocked and available for viewing.

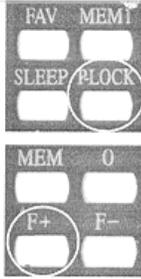
NOTE: You do not need to have a Parental Lock-Out channel selected to deactivate Parental Lock-Out. To indicate which channels are in Parental Lock-Out memory, a period to the left of the second channel digit will appear. If the incorrect code is entered, Parental Lock-Out will not be deactivated and the display will revert back to displaying the current channel number.

Remove channels from P-Lock memory

- Deactivated Parental Lock-Out as explained above
- Select channel you wish to move from memory.
- Press the P-Lock button then the F-button within 3 seconds



CHANGING YOUR PASSCODE:



- Press the P-Lock button
- Enter your Parental Lock-Out code (Factory Default is 2999)
- Press MEM button
- All Parental Lock-Out channels are deactivated and available for viewing
- Press the P-Lock button, enter your new secret 4 digit passcode, then press the F+ Button

Warning: Make sure you write your new passcode down and secure it in a safe place. If you forget your passcode, please call us for master reset.

SPECIAL MODES MEM1, MEM2, MEM3, MEM4:

The MEM 1, MEM 2, MEM 3, MEM 4 keys are used to turn on special application software of specific application cards which can be installed inside the converter. A corresponding indicator for each of the 4 special application will light up on the front panel of the converter to indicate its status.

APPLICATION OF MEM 1

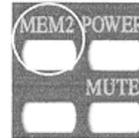
To set the status of MEM 1

- Select the channel that requires the application of MEM1
- Press MEM 1 key and the corresponding MEM 1 indicator turns on to indicate the status of MEM 1.
- Press MEM key, then F+ key within 3 seconds to store the status in the memory.

To reset the status of MEM 1

- Press MEM 1 key again and the MEM 1 indicator turns off to indicate the status of MEM 1.
- Press MEM key, then F+ key within 3 seconds to store the new

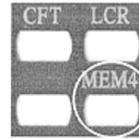
status in the memory.



APPLICATION OF MEM 2 /MEM 3

Use MEM 2/ MEM 3 key and follow the same procedures as of APPLICATION OF MEM 1.

Note: Ensure the correct carrier is set before memorizing channel information (see page 3).



To set the status of MEM 4

- Select the channel that requires the MEM 4 application.
- Press MEM 4 key and the display shows: L .-- --
- Enter passcode : 2999 and the MEM 4 indicator turns on to indicate the status of MEM 4.
- Press MEM key , then F+ key within 3 seconds to store the status in the memory.

To reset the status of MEM 4

- Press MEM 4 key again and the display shows:L .-- -
- Enter passcode : 2999 and the MEM 4 indicator turns off to indicate the change of the status of MEM 4.
- Press MEM key , then F+ key within 3 seconds to store the new status in the memory.

CHANNEL SCAN UP/DOWN(CH▲/CH▼):

These features are common to both the *CONVERTER* and the remote control. They allow you to scan up or down through channels one at a time in numerical order. Holding either of these buttons down will cause the *CONVERTER* to rapid scan up/down until it is released.



Scan Up

- Momentarily press CH▲(channel up) to scan to the next highest channel.
- When the highest channel is reached, scanning will start again on the lowest channel.

Scan Down

- Momentarily press CH▼(channel down) to scan to the next lowest channel.
- When the lowest channel is reached, scanning will start again on the highest channel.

DIRECT CHANNEL SELECTION:

This feature allows you to select the channel of your choice by pressing the number 0 through 9 on your remote control keypad.

Channels 1-12 (example, channel 9)

- Enter 009 to change instantly
- Enter 09 and the channel will change after two seconds
- Enter 9 and the channel will change after two seconds

Channel 13-99 (example: channel 99)

- Enter 099 to change instantly
- Enter 99 to change instantly

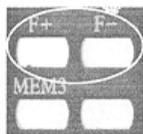
Channel 100-125 (example: channel 125)

- Enter125 to change instantly



FINE TUNING UP/ DOWN (F+/F-)

When you first install your converter, you may need to adjust the fine tuning. Make sure your converter is installed correctly and set on the proper IRC/HRC/STD setting. If the equipment is



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hooked up correctly, fine tuning will not produce the desired picture.

Fine Tune Up

- Press the F+ button and hold it down until the desired picture quality is reached, then release it.

Fine Tune Down

- Press the F- button and hold it down until the desired picture quality is reached, then release it.

CENTER FINE TUNE BUTTON:

The Center Fine Tuning circuitry is setup to bring the picture to the center of the cable channel tuning band. This feature is automatic when changing channels or can be activated manually by pressing the center fine tune button on the remote control.

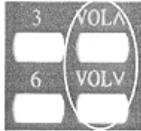
Center Fine Tuning a channel

- Point the remote control toward the *CONVERTER* and press the Center Fine Tune button (CFT).



Note: In some cases the Center Fine Tune button may not bring the picture in correctly. This is usually caused by the misalignment of your cable company's signals. If this is the case, additional tuning is required, read F+, F-.

VOLUME UP/DOWN (V▲/V▼) :



The *CONVERTER* has built in volume control which works in conjunction with your television's volume control. To initially set volume level, set the volume on the television to mid-range, then use the V ▲ button to tune up the *CONVERTER* volume level as loud as it will go. Then use your *CONVERTER* V ▼ button to decrease the volume to a comfortable listening level.

NOTE: The volume level on the *CONVERTER* must be at least half way up to process stereo signal and the way up (maximum) to process surround sound.

Volume Up

- Press the V ▲ button and hold it in until the desired volume is reached.

Volume Down

- Press the V ▼ button and hold it in until the desired volume is reached.

NOTE: If you don't have audio, or the audio level is very low, check you TV's audio level. It must be turned up approximately half way. Also check the mute feature on the *CONVERTER* or TV in case it was accidentally activated. Then turn the volume level up on the *CONVERTER*.

MUTE :



This feature allows you to temporarily mute the audio.

Mute Audio

- Press the mute button

Resume Audio

- Press the mute button again

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

FCC Caution: To assure continued compliance, (example – use only shielded interface cables when connecting to computer or peripheral devices). Any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate this equipment.