Channel Master®

VideoCipher® RS Module

Operating Instructions

Important Safeguards

When using an IRD with VCRS module, basic safety precautions should always be followed to reduce the risk of fire, electric shock and injury to persons, including the following:

1. Read and understand all instructions, including those provided with your unit.
2. Follow all warnings and instructions marked on the equipment.
3. Unplug the unit from the wall outlet before cleaning.
4. Do not use this product near water (for example near a bathtub, wash bowl, kitchen sink, or laundry tub, in a wet basement, or near a swimming pool).
5. Do not place this product on an unstable cart, stand or table. The product may fall, causing serious damage.
6. Slots and openings in the cabinet and the back or bottom are provided for ventilation, to protect it from overheating. These openings must not be blocked or covered. The openings should never be blocked by placing the product on a bed, sofa, rug or other similar surface. This product should never be placed near or over a radiator or heat register. This product should not be placed in a built-in installation unless proper ventilation is provided.
7. This product should be operated only from the type of power source indicated on the marking label. If you are not sure of the type of power supply to your home, consult your dealer or local power company.
8. Do not allow anything to rest on the power cord. Do not locate this product where the cord will be abused by persons walking on it.
9. Never push objects of any kind into the product through cabinet slots as they may touch dangerous voltage points or short out parts that could result in a risk of fire or electric shock. Never spill liquid of any kind on the product.
10. To reduce the risk of electric shock, do not disassemble the product, but contact a qualified serviceman when some service or repair work is required. Opening or removing covers may expose you to dangerous voltages or other risks. Incorrect reassembly can cause electric shock when the appliance is subsequently used.
11. Unplug the product from the wall outlet and refer servicing to qualified service personnel under the following conditions:
    A. When the power supply cord or plug is damaged or frayed.
    B. If liquid has been spilled into the product.
    C. If the product has been exposed to rain or water.
    D. If the product does not operate normally by following the operating instructions. Adjust only those controls that are covered by the operating instructions, because improper adjustment of other controls may result in damage and will often require extensive work by a qualified technician to restore the product to normal operation.
    E. If the product has been dropped or the cabinet has been damaged.
    F. If the product exhibits a distinct change in performance.
12. Never install telephone wiring during a lightning storm.
13. Never touch uninsulated telephone wires or terminals unless the telephone line has been disconnected at the network interface.
14. Use caution when installing or modifying telephone lines.

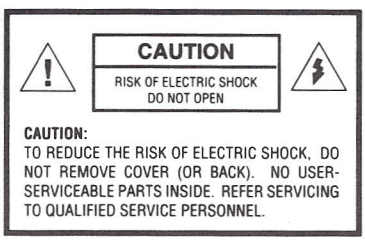
SAVE THESE INSTRUCTIONS

OPERATION PRECAUTIONS

WARNING:
To reduce the risk of fire or electric shock, do not expose this appliance to rain or moisture. Do not open the cabinet. Refer servicing to qualified personnel only.

ATTENTION:
Pour réduir les risques d'incendie et de chocs életriques, ne pas expose cet appareil á la pluie ou á l'humidité. N'ouvres pas l'appareil. Pour le service aprés-vente, veuillez consulter un reparateur qualifie.

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.



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

ATTENTION:
This consumer unit is intended for the authorized descrambling for personal use of those satellite television signals which have been scrambled using the VIDEOCIPHER®II or VIDEOCIPHER®II Plus scrambling format. Ownership or possession of the descrambler does not entitle (nor enable) the owner or possessor hereof to receive descrambled VIDEOCIPHER II or VIDEOCIPHER II Plus television signals. To obtain proper authorization for this consumer descrambler, the owner or possessor must separately contract with the appropriate programming provider(s) or its (their) agent(s).

U.S. government restrictions may prohibit the export of this product outside the United States, its territories, or possessions without a valid export license.

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Your New VideoCipher RS Module

Congratulations! You are now the owner of a new Videocipher® RS (VCRS™) satellite TV descrambler module. This new descrambler module is for use in your home satellite TV system.

The new VCRS module represents the state of the art in satellite TV descrambling technology. It will allow you to view the new and expanding world of pay-per-view programming as well as all of the subscription and "clear" programs you currently enjoy. Other key features include additional data and audio channels for future services as well as greatly expanded on-screen displays. These new displays provide you with more helpful information about your system and the types of satellite programming you watch.

IMPORTANT VCRS FEATURES:

☐ ***Instant Pay-Per-View Capability With Built-in VIDEOpal® Order Recorder***

Access pay-per-view programming options each month with this exciting new feature! This system allows you to pay only for the movies, sports, or special events that you actually watch. Hook up the VIDEOpal Order Recorder to your phone line and then call 800-54-VIDEO (800-548-4336) for authorization.

☐ ***Full One-Year Warranty***

All modules manufactured by Channel Master® include a one year limited warranty.

☐ ***Consumer Security Protection Program (CSPP)***

All VCRS modules include this General Instrument protection program. This program assures that if programmers change their VideoCipher scrambling system during the three-year period following your receipt of the module, you will be provided - at no cost - with a new security "smart card" known as the TvPass™ Card.

☐ ***Renewable Security With the TvPass Card***

The TvPass Card ensures a rapid, easy upgrade of security in the event that it becomes necessary. If so, this "smart card" will be sent to you by General Instrument or your program provider. By inserting the TvPass Card into the back of your VCRS mdoule you will automatically increase your level of subscription security.

☐ ***Enhanced On-Screen Displays***

These newly designed operating screens make it easier than ever for you to operate your existing home satellite system.

☐ ***Non-Scambled, "Clear" Programming***

With or without your VCRS module installed, you can continue to enjoy non-scrambled programming just as you have in the past. These "clear" services may be viewed at any time without subscription authorization.

MODULE AUTHORIZATION

After your dealer has installed your new VCRS module, either you or your dealer should follow the steps below.

1) Tune to a VideoCipher scrambled channel. The VideoCipher signal LED should be illuminated on the descrambler or integrated receiver descrambler (IRD).

2) Using your remote control or the front-panel controls of your IRD, press **[SETUP]** and **[1]** and **[1]**. The **Unit ID** and **Phone ID** will appear in lines number 1 and 2. Please record the numbers displayed on your screen:

Unit ID: _ _ _ _ - _ _ _ _ - _ _ _ _

Phone ID: _ _ _ _ - _ _ _ _ - _ _ _ _ - _ _ _ _

These unique unit identification numbers are used by your program providers to authorize your module for subscription program reception.

3) The Installation Data screen will also show **Signal Quality** on line 8. This number should be greater than 60. If this signal reads less than 60, you may experience difficulty authorizing the module. Adjusting dish alignment, receiver video fine tuning, and/or skew may help to increase the Signal Quality received by the module.

Press **[VIEW]** to leave this screen.

```
* INSTALLATION DATA *
VideoCipher RS Descrambler
 1) Unit ID:          0400-3057-FF4E
 2) Phone ID:  0100-0060-2577-7516
 3)
 4) Version: Module 2.0
 5) IRD  S: Subscribed
 6) VIDEOpal enabled
 7) Provider ID                  153
 8) Signal Quality               100
 9) Trip Counter                0-00
10) Message Rate                  10
11) Category                  CO-4F
12) Location                    Set
      (Press VIEW to exit)
```

Installation Data Screen
To view this screen, press **[SETUP]**, **[1]** and **[1]**

TRANSFERRING OR ADDING SUBSCRIPTION SERVICES

1) In order to transfer subscription services to your new module, you need to call the programmers who provided services for your old module. Programmers may ask for your old Unit ID which appears on your billing statements, or on the back of the older module. Your Programmers will also need the ID numbers noted in step 2 above. These numbers are also used for all new subscription purchases.

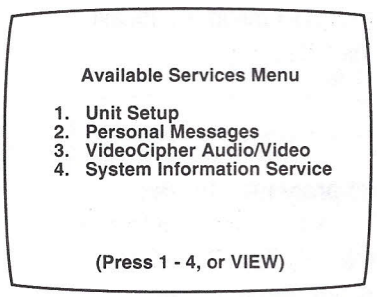
NOTE: The Unit ID is sometimes referred to as the Unit Address, or UA.

2) After initiating or transferring services, leave the receiver or IRD tuned to a VideoCipher scrambled channel until the module receives authorization and you are able to view the programming you ordered. If you stay tuned to the Installation Data screen, you will notice that your **Trip Counter** number (line 9) has increased. You should then have access to the programming service to which you have subscribed.

OPERATIONS: USING THE ON-SCREEN DISPLAYS

Once your module has received subscription authorization, you may want to become familiar with the many different features and on-screen displays that your VCRS module provides. Your on-screen displays allow you to: 1) see how well your system is functioning on VideoCipher channels; 2) receive important messages from your programmer; 3) limit access to programs with mature subject material; and 4) use the Instant Pay-Per-View features of your module.

NOTE: These on-screen displays are only visible on VideoCipher channels.

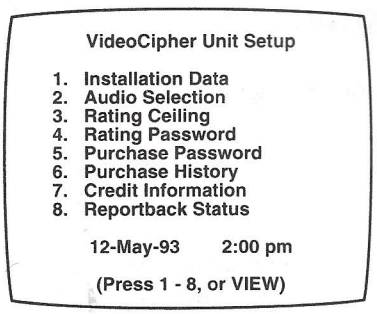


To view this screen, press **[SETUP]**

Available Services Menu

The first screen you see after you press the **[SETUP]** button is the **Available Services Menu.** This menu simply allows you to choose from the four available options listed.

If you wish to return to normal television viewing at any time, press [VIEW].



To view this screen, press **[SETUP]** and **[1]**

VideoCipher Unit Setup

Pressing the **[SETUP]** and **[1]** buttons will allow you to view the VideoCipher Unit Setup screen. This screen contains eight different choices. Choices 1 through 4 are used for normal operation of the module, while choices 5 through 8 relate to instant pay-per-view operation. More detail is described starting on page 12 of this manual.

Message Indicator

When your programmer has sent a new message, you will see a blinking message indicator. Pressing **[SETUP]** and **[2]**, or the **[MESG]** key on your remote, will allow you to view the **Personal Messages** screen. Once the message has been read, the blinking indicator will disappear. Unless your programmer has sent you a message, the bottom of your screen will read "No Personal Messages". Press **[HELP]** for additional information on the Personal Messages screen.

VideoCipher Audio/Video

Pressing **[SETUP]** and **[3]** will allow you to view the programming currently offered on the VideoCipher channel that you have selected. Selecting **[VIEW]** is the same as pressing **[SETUP], [3].**

System Information Service

Pressing **[SETUP]** and **[4]** will allow you to view the Systems Information Services screen. This service is intended for the broadcast of general interest text messages at the programmer's option and may not be available on all channels. Press **[HELP]** for further information on this screen.

OTHER MODULE FUNCTIONS

In addition to the **[SETUP]** key functions, your VCRS module also offers some other key inputs. They are listed below:

[HELP]

This key provides any additional information available for the screen you are viewing.

[MESG]

This key allows you to view any personal messages you may have.

[NEXT]

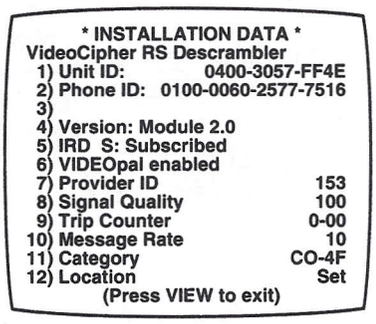
This key allows you to see information about the next program being broadcast on the channel you are viewing. This information is transmitted at the programmer's option.

[VIEW]

This key allows you to see information about the current program. This may include the program name and how much time is left in the program. In addition, it returns you to normal viewing from any other on-screen display. The information displayed disappears after five seconds if the key is not pressed again.

NOTE: Not all programmers broadcast **[VIEW]** or **[NEXT]** information.

The VideoCipher Unit Setup screen contains many important diagnostic items. We'll review them one at a time.



Installation Data Screen
To view this screen, press **[SETUP]**, **[1]** and **[1]**

Checking the Unit Status

When you press **[SETUP]**, **[1]** and **[1]** you will see the Installation Data screen. This screen provides information about unit and system operation. Press **[HELP]** for additional information on the Installation Data screen. Press **[VIEW]** to leave this screen and continue normal viewing, or press **[ENTER]** to return to the Setup menu.

Lines 1 and **2** contain your unique unit identification numbers, used by the programmer to authorize you for subscription programming.

Line 3 will be blank unless the VideoCipher RS replaceable security element, the TvPass Card, is installed. It will then display a TvPass Card ID number.

NOTE: The TvPass Card is not included in the initial shipment of the VCRS module.

Line 4 tells you what module version and TvPass Card your system contains.

Line 5 tells you the scrambling status of the VideoCipher channel to which you are currently tuned. Refer to the table below for possible displays.

MODEL TYPE	SCRAMBLING STATUS	AUTHORIZATION STATUS
DES = Module inserted into a standalone descrambler	F = Fixed Key	Subscribed
IRD = Module inserted into an integrated receiver descrambler	P = Processed, Unscrambled	Purchased
	S = Scrambled	Not Subscribed

Line 6 shows if your new module has been authorized for instant pay-per-view operation. This line will read "VIDEOpal enabled" if the module is authorized for instant pay-per-view. (See page 14 of this manual to authorize your built-in VIDEOpal Order Recorder).

Line 7 contains the unique Programmer code for the VideoCipher channel you are watching.

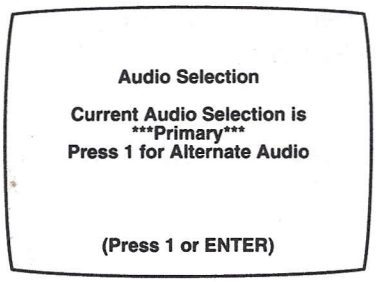
Line 8 is your Signal Quality. The maximum Signal Quality is 100. As noted earlier in the Authorization section of this manual, if this number is less than 60, you may have difficulty authorizing the module and your satellite system may be in need of tuning or maintenance.

Line 9 shows how many authorization change requests (i.e., Instant Trip messages) your module has received since you tuned to this screen.

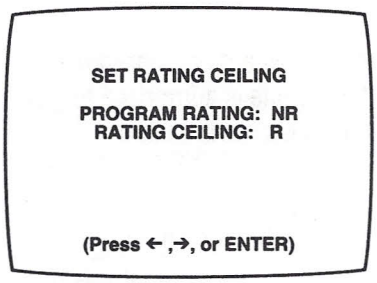
Line 10 shows if your module is receiving a clear signal from your satellite dish. The clearest signal will be a 10.

Line 11 shows if your system has received its monthly authorization update from the programmer. These numbers will change on a monthly basis. Your programmer may ask about these characters should you have trouble gaining access to programming.

Line 12 shows that the programmer has your unit identification number stored properly, by the address information provided to them.



Audio Selection Screen
To view this screen, press
[SETUP], **[1]** and **[2]**



Set Rating Ceiling Screen
To view this screen, press
[SETUP], **[1]** and **[3]**

Checking the Audio Unit Settings

When you press **[SETUP]**, **[1]** and **[2]** you will see the Audio Selection screen.

Current Audio Selection

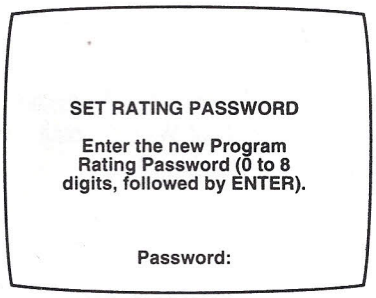
This feature allows setting the audio on scrambled channels to either Primary or Alternate. The normal setting will be Primary. Scrambled channels may or may not broadcast an Alternate audio feed. Pressing **[1]** will change the module setting to Alternate. (Alternate could be a second language transmission.) Press **[VIEW]** at any time to resume normal viewing.

Setting the Rating Ceiling

Pressing **[SETUP]**, **[1]** and **[3]** reveals the Set Rating Ceiling screen. Those without a password will be prevented from watching shows with a rating ceiling higher than you have set. For example, if you set your Rating Ceiling at "PG-13", your module will require a password (if one has been set) before allowing viewing access to movies with "R" or higher ratings. You cannot, however, lock out shows with a "G" rating or no rating at all, "NR". Refer to the guide below for a complete list of movie ratings.

Movie Ratings Guide
NONE - No Rating
G - General Audiences
PG - Parental Guidance Suggested
PG13 - Parental Guidance for Children Under 13
R - Restricted
NC17 - No Children 17 or Under
NR - Not Rated; Used for Non-Rated Adult Programming
X - Adult, No One Under 18

The Program Rating line shows the rating the current program has been assigned. An "NR" on this line indicates the program being viewed is not rated by the Motion Picture Association of America. The Rating Ceiling line indicates the highest rating the module will allow to be viewed. To set the level, press the [←] or [→] keys until the rating ceiling reaches the desired level. If you wish to ensure that no programs are locked out due to Rating Ceiling, this setting should remain at "X". Remember, you must press **[ENTER]** to save the changes and it is advisable to set a password, as described below, to enforce this rating level. Press **[HELP]** for additional information on the Set Rating Ceiling screen. Press **[VIEW]** to return to normal viewing.



Set Rating Password Screen
To view this screen, press **[SETUP]**, **[1]** and **[4]**

Setting a Rating Password

Pressing **[SETUP]**, **[1]** and **[4]** allows you to establish a Rating Password. By setting this password, you can prevent others from changing the Rating Ceiling.

To Set a Rating Password

It is recommended that you choose a number which is easy to remember, **but not easily guessed** by other users of your system. Enter up to eight numbers (the screen will show one * for each number pressed) and press **[ENTER]**. The module will ask you to enter your password again for confirmation. Enter the same numbers, followed by **[ENTER]**. Your new Rating Ceiling Password will be stored. If you make a mistake, use the [←] key to erase the entry. If you decide to change your Rating Ceiling (**[SETUP]**, **[1]** and **[3]**), the module will ask you to enter the existing Rating Password. After the password has been entered, you can change your Rating Ceiling as described above. Press **[HELP]** for further information on the Set Rating Password screen. Press **[VIEW]** to leave this screen and resume normal viewing.

To Remove a Rating Password

Press **[SETUP]**, **[1]** and **[4]** to re-enter the Password screen. Next, enter the existing password, then press **[ENTER]** two more times to remove your Rating Ceiling Password. If you want to set a new password, follow the instructions above. Press **[VIEW]** to resume normal viewing.

Instant Pay-Per-View

THE WORLD OF VIDEOpal® INSTANT PAY-PER-VIEW

The VIDEOpal Order Recorder is a breakthrough in home satellite viewing. It provides you with instant pay-per-view entertainment at the touch of a button! With it, you'll enjoy many special programs and events once available only on cable TV or videotape.

Watch It Now!

With the VIDEOpal Order Recorder, you can enjoy pay-per-view movies, concerts and sporting events from the comfort of your own home. There's no need to fight the crowds, rent and return a videocassette, or wait until the program appears through regular distribution channels. The VIDEOpal system eliminates all the hassle and delay by making ordering instantaneous. Best of all, events ordered via the VIDEOpal system are never sold out, and movies are *never* out of stock!

Once you've activated the built-in VIDEOpal Order Recorder feature of your IRD, all you need to do to have your descrambler authorized for pay-per-view programming is call your pay-per-view billing service, or the Satellite Video Center (SVC) at:

The Satellite Video Center
800-54-VIDEO
(800-548-4336)

Serving as a national clearinghouse for pay-per-view programmers, the Satellite Video Center and its customer service representatives will be glad to open an account in your name and initiate the electronic authorization process. (There may be a one-time charge to begin service.) Once you've made the call, your account will be established immediately, allowing you to select your favorite pay-per-view programs with the touch of a button.

Install It and Enjoy It.

Once the VIDEOpal system is properly activated, you can forget about it. It requires no adjustments and it has no adverse effect on the daily operation of your satellite or telephone system.

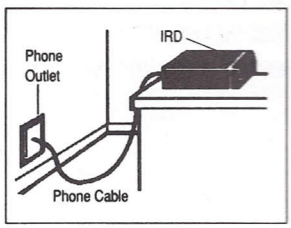
The VIDEOpal Order Recorder automatically keeps track of the programs you have watched and then reports periodically (at no charge to your home telephone account) to the Satellite Video Center or to a pay-per-view billing center. The Satellite Video Center or the pay-per-view billing center will bill you for the programs ordered.

The VIDEOpal Order Recorder makes it easy for you to enjoy the best entertainment in North America with your home satellite system! Watch your personal message feature for more information.

CONNECTING VIDEOPAL TO A TELEPHONE OUTLET

IMPORTANT: Lightning Protection
For added protection of this product before a lightning storm, or when it is to be unused for a long period, such as during a vacation, it is suggested that you unplug the power cord and the phone cord from your system – *but only when it is safe to do so.* **Do not attempt to unplug your system during a lightning storm.** Following the precautions above will help prevent damage to the product due to lightning surge on the power, phone, or antenna system lines. However, please make sure and plug these items back in as soon as the storm has passed. Be sure your antenna is grounded as recommended by your equipment manufacturer. It is also recommended that you invest in power line and telephone line surge suppressors if you live in an area that is prone to lightning storms. These devices help to protect your system from possible severe damage.

Modular Phone Cord



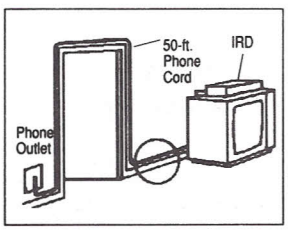
You will need a modular phone cord to connect the VCRS module VIDEOpal system to your telephone outlet. Using a "two-for-one" modular phone jack will allow you to connect a telephone to the same outlet.

To connect the VIDEOpal system, just follow these simple steps:

1) Locate the modular phone jack on your IRD or descrambler. If it has more than one jack, be certain to use the jack located directly on the new VCRS module. Insert one end of the phone cord into this jack.

NOTE: If you cannot locate the telephone jack on your satellite equipment, please call your local dealer or the manufacturer of your equipment. You may require an external VIDEOpal Order Recorder.

2) Connect the other end of the telephone cord directly to the nearest telephone outlet.



3) Be certain to route the cable clear of foot traffic or equipment that might damage it. Avoid running the cable under carpeting or rugs. The cable may be secured along baseboards or around doorways using either a staple gun with the proper staples, or insulated staples that are tapped into place with a hammer. Be careful not to puncture the cable when using staples.

4) If after installation of the VIDEOpal feature of your VideoCipher RS module, you experience interference in the video, unplug and reconnect the telephone cord from the IRD/descrambler while observing the interference.

If the interference is present only with the telephone cord connected, call General Instrument at 704-327-2026 for assistance.

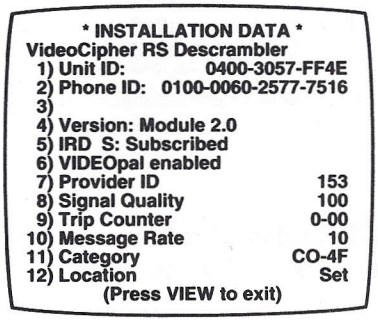
PAY-PER-VIEW AUTHORIZATION

To authorize your VCRS module for pay-per-view programming, please follow these simple steps:

1) Ensure proper connection of the module to the telephone system as explained in the installation instructions. It is necessary for the module to be connected to a live telephone line for pay-per-view authorization. It is suggested that you test this line by connecting a telephone to this line and placing a call. Be sure to reconnect the telephone line to the module before proceeding with authorization.

2) Tune to a VideoCipher scrambled channel and verify proper signal strength. Press **[SETUP]**, **[1]** and **[1]** to verify. The signal strength that appears on line 8 should read greater than 60. If this signal reads less than 60, you may experience difficulty authorizing the module. Adjusting dish alignment, receiver tuning, and/or skew may help to increase the module Signal Quality.

3) Call your pay-per-view program provider or the Satellite Video Center at **800-54-VIDEO** (**800-548-4336**). A Customer Service Representative will assist you in setting up an account to purchase pay-per-view. The module is authorized for pay-per-view when line 6 reads "VIDEOpal enabled".



Installation Data Screen
To view this screen, press
[SETUP], **[1]** and **[1]**

ON-SCREEN DISPLAYS AND DESCRIPTIONS FOR PAY-PER-VIEW

Setting/Changing Purchase Passwords

There are two types of passwords available for the VCRS module. You may have already set a Rating Password. The module also allows you to limit access to pay-per-view programming by setting a Purchase Password for the internal VIDEOpal Order Recorder. For example, you may wish to prevent purchases by children or babysitters. This feature is provided for customer convenience, but it is not rquired to operate the instant pay-per-view feature. It is, however, **strongly suggested** that a password be used to prevent unauthorized pay-per-view purchases.

Set Purchase Password Screen
To view this screen, press
[SETUP], **[1]** and **[5]**

To set a Purchase Password, press **[SETUP]**, **[1]** and **[5]** to display the Set Purchase Password screen. Choose a number which is easy to remember, but not easily guessed by other users of your system.

Enter up to eight numbers (the screen will show one * for each number pressed) and then press **[ENTER]**. For confirmation, the module will ask you to enter your new password again, followed by the **[ENTER]** key. Your Purchase Password will then be stored.

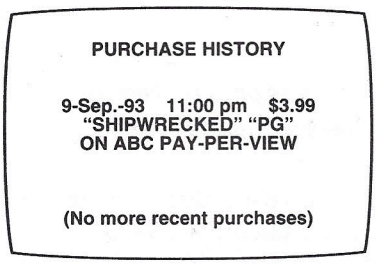
Change Purchase Password Screen
To view this screen, press
[SETUP], **[1]** and **[5]**

To change your Purchase Password, press **[SETUP]**, **[1]** and **[5]**, enter your old password, and follow the prompts onscreen.

To remove a password completely, press **[SETUP]**, **[1]** and **[5],** enter the existing password, then press **[ENTER]** two more times.

Press **[VIEW]** to resume normal viewing.

NOTE: If you should forget your password, it may be necessary to call your program provider or the Satellite Video Center at 800-54-VIDEO. They will remove the password via satellite. This will reset the Purchase Password and the Rating Password, making it necessary to reset both. There may be a charge for a password reset.



Purchase History Screen
To view this screen, press
SETUP, **[1]** and **[6]**

Purchase History

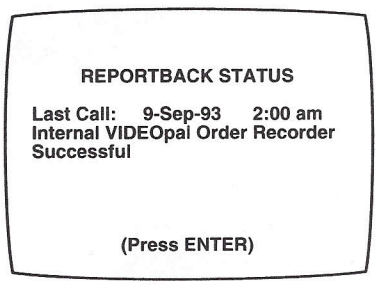
Pressing the **[SETUP]**, **[1]** and **[6]** buttons will take you to the Purchase History screen. This screen will allow you to review the 15 most recent programs purchased with your VIDEOpal. Use the [←] and [→] arrow keys on your remote control to see all 15 purchases. Press **[HELP]** for additional information on the Purchase History screen. Press **[VIEW]** to leave this screen and resume normal viewing. (If you have no purchase history, you will only view the Unit Setup screen.)

Credit History Screen
To view this screen, press
[SETUP], **[1]** and **[7]**

Credit Information

Pressing **[SETUP]**, **[1]** and **[7]** will allow you to view the Credit Information screen. The Satellite Video Center may ask you to read this screen if the unit's instant pay-per-view services are interrupted. **The credit amount shown at the top of the screen does not represent a free credit or purchasing limits for the account. It is for administrative purposes only.** The last line indicates whether or not you have established an account to purchase programs with the Satellite Video Center. Press **[HELP]** for additional information on the Credit Information screen. Press **[VIEW]** to leave this screen and resume normal viewing.

NOTE: If you have not established an account for VIDEOpal services, the screen will say "contact your billing center."



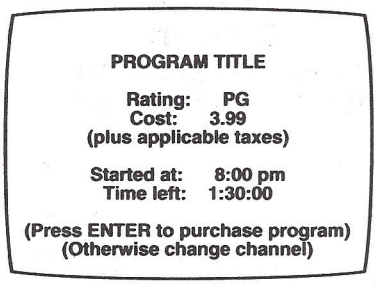
Reportback Status Screen
To view this screen, press
[SETUP], **[1]** and **[8]**

Reportback Status

Pressing **[SETUP]**, **[1]** and **[8]** will allow you to view the Reportback Status screen. Periodically, the VIDEOpal Order Recorder will report (through a toll-free 800 number) any instant pay-per-view purchases that have been made. This screen will display whether or not the last reportback attempt was successful. The screen should always read SUCCESSFUL. If this screen reads anything else, please check the telephone cable connection on the rear of the module and contact the Satellite Video Center at 800-54-VIDEO. Press **[HELP]** for additional information on the Reportback Status screen. Press **[VIEW]** to leave this screen and resume normal viewing.

ORDERING INSTANT PAY-PER-VIEW PROGRAMS

After being authorized by the Satellite Video Center, the VIDEOpal allows you to purchase the current program being offered on pay-per-view channels or the program coming up next after the current program ends.



Current Program Screen
To view this screen, press **[VIEW]**

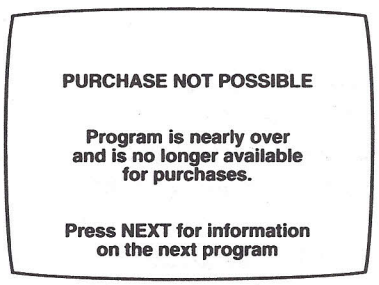
Purchasing the Current Program

1) Tune the satellite receiver or IRD to the satellite and transponder (channel) of the pay-per-view program you wish to purchase. For a complete listing of pay-per-view movies and events, check your satellite program guide.

2) Press **[VIEW]** for purchasing information. This screen will display the name of the program, the amount of time remaining in the program (if it has already started), and the price of the program.

3) To order the program, press the **[ENTER]** key, enter the password (if there is one), then press **[ENTER]** again to confirm the order. *That's all it takes!*

NOTE: Pay special attention to the time the program ends. Your account will be billed for the full program price regardless of how much of the program has elapsed before you order. The Rating Ceiling lockout will also apply prior to confirmation of purchase, if active.

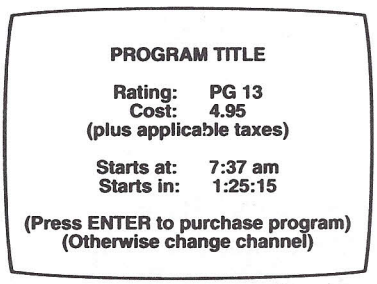


Purchase Window Screen

NOTE: All programmers have the ability to prevent a late program purchase after some portion of the program has already elapsed. For example, if you should try to purchase a program after it has passed the halfway mark, you may see a message stating that you cannot purchase this program. This lockout feature, called the Purchase Window, is optional with each programmer who may or may not decide to use it.

Puchasing the Next Program

1) To order the next program, tune the satellite receiver or IRD to the correct satellite and transponder (channel) and press **[NEXT]**. The screen will display information on the program title, cost, and the amount of time remaining before the next program begins. You may also consult a satellite guide for program availability.



Next Program Screen
To view this screen, press **[NEXT]**

2) The screen will prompt you to press **[ENTER]** to purchase the next program. Press **[ENTER]** if you wish to order the program, enter the purchase password (if there is one), and then press **[ENTER]** again to confirm the order. Keep your IRD turned on and wait for the start of the next program. You may buy only one show in advance.

NOTE: Cancelling The Program After Ordered

It is possible to cancel the NEXT program once it has been ordered. Should you decide **not** to view the program coming up next, simply change the channel or shut off the IRD or descrambler before the program begins. Or, you may also press **[NEXT]** and then **[ENTER]** at the "press ENTER to CANCEL" prompt **before** the program begins. Your account will not be billed for the purchase of the program if it is cancelled before it begins. It is not possible, however, to cancel the current program once it has been purchased and the program has begun.

VIDEOpal® Troubleshooting: Questions and Answers

Q) What happens if the phone line to the VCRS system is accidentally unplugged?

A) If the unit should be disconnected from your home telephone system your pay-per-view programming service may be interrupted. If your service is discontinued, plug the unit back into the home telephone system. You must call the billing center or the Satellite Video Center for re-authorization. You may be charged a re-authorization fee.

Q) Will the VIDEOpal system interfere with my phone service?

A) Usually not. The VIDEOpal system is called upon to use your phone line when you are least likely to be using it. If you should pick up your receiver and hear a very unusual noise, it may be the VIDEOpal unit communicating with the Satellite Video Center's (or billing center's) computer at the other end. Please hang up and try your call again.

Q) Do I have to pay for the phone call?

A) The VIDEOpal Order Recorder calls in on a special toll-free (800) number so you shouldn't see or be charged for the call on your monthly phone bill.

Q) How long do the calls last?

A) Typically, they last less than 15 seconds and they are usually made late at night when you are least likely to be using your telephone.

Q) Will the VIDEOpal system interfere with my telephone answering service or answering machine?

A) The VIDEOpal module is not equipped to receive phone calls, only make them. If your service or answering machine is not currently disturbed by outgoing calls, the VIDEOpal system should not cause any problems.

Q) I'm on a party line. What happens if my VIDEOpal unit tries to make a call and someone else is on the line?

A) The VIDEOpal system may not work with party lines, or on telephone systems where you require an operator's assistance to make long distance calls.

Q) I have call forwarding/call waiting. Will the VIDEOpal system have any effect on it?

A) The VIDEOpal feature should not have any effect on these services.

Q) I sometimes unplug my phone at night. Will that affect the VIDEOpal system's ability to call out?

A) It is all right to unplug your phone, however, be certain to unplug it rather than leave the receiver off the hook. Leave the VIDEOpal unit plugged into the phone line at all times.

Q) What if I should happen to forget my purchase password?

A) If you should forget your purchase password, it will be necessary to call the Satellite Video Center (or your billing center). They will erase both your purchase and rating passwords for you. (There may be a service charge for this.) You may then enter new passwords if you wish. NOTE: The purchase password may be the same as your rating password, if you desire.

Q) What if I should change channels while the event is taking place, and then tune back to the same channel? Will I be charged twice for the same program?

A) No. To clarify, you will not be charged again when returning to a purchased program, even if you purchased a second program before returning to the original.

Q) What if I purchase the NEXT program, but then don't watch it?

A) Your account won't be charged for any programming you order in advance if you change channels, or if your satellite system is shut off before the program is shown.

Q) How far in advance may I order a program?

A) You may order only the program in progress or the next program available.

Q) My telephone sometimes chirps when the VIDEOpal Order Recorder is making a phone call. Is this normal?

A) There are two basic types of phone service your phone company may offer: Rotary/Pulse (mechanical dial) and Tone (push button). Many electronic push button telephones will work with Rotary/Pulse service by using the Pulse dialing method (after pressing the telephone's buttons you will hear a clicking sound in the receiver.) The VIDEOpal Order Recorder operates in the same manner as a Pulse telephone and may cause some telephones to chirp briefly when it makes a call. This will not interfere with your telephone service or your telephone.

Q) I cannot receive the channel. What do I do?

A) Operation of the VIDEOpal system is almost totally automatic and there are no adjustments necessary. If you should ever experience any difficulty using the VIDEOpal system, please refer to the following troubleshooting suggestions:

1) Check all connections and make sure the power is ON to all components.

2) Make certain that your satellite system is tuned to the correct satellite and channel. NOTE: Weather conditions and your geographical location may affect signal quality.

3) Check a program guide to make certain that the program you're interested in is available for pay-per-view and can be ordered with the VIDEOpal system.

4) Make certain your account is current (press **[SETUP], [1], [7]** for possible on-screen directions).

The TvPass™ Card

One of the primary features of the VCRS module is the capability to easily change security levels with the introduction or change of a TvPass Card. This is a plastic "smart card", about the size of an average credit card, which will fit into the slot provided in the rear of the VCRS module.

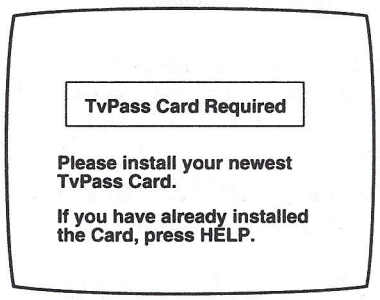
When a TvPass Card is used with this VCRS module, you will need to be aware of some additional on-screen displays. These are designed to inform you of satellite system problems relating to the installation and use of the TvPass Card. These displays will appear automatically on all VideoCipher Channels in the event of a problem with your TvPass Card.

NOTE: These displays cannot be seen unless the TvPass Card replaceable security system is in use and you are tuned to a VideoCipher channel.

CONDITION

EXPLANATION / ACTION

TvPass Card Not Installed



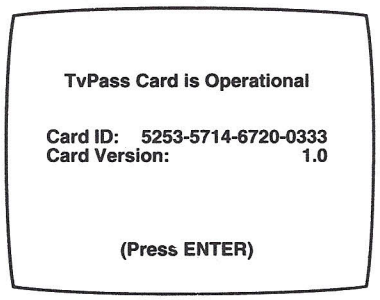
System authorization has been upgraded to a higher level, which now requires a TvPass Card. If this screen appears and you do not have a TvPass Card, contact your program provider. When this screen appears, perform the following:

1) Insert your TvPass Card into the VCRS descrambler via the opening in the module. For most receivers this is located in the rear of the unit.

2) Once the TvPass Card is inserted, press **[SETUP]**, **[1]**, **[1]**, **[1]**.

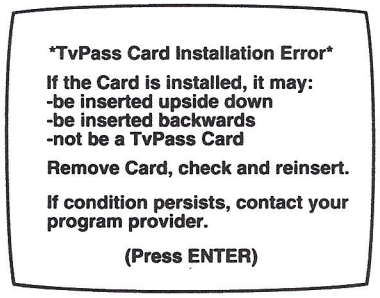
3) Press **[ENTER]** when prompted.

TvPass Card is Operational



The TvPass Card has been accepted and is operational. Press **[ENTER]** to resume normal viewing.

TvPass Card Installation Error



The TvPass Card you are attempting to install is not working properly. Please make sure that its orientation is correct. Only General Instrument TvPass Cards will work in this VCRS descrambler. Contact your program provider if this problem persists.

CONDITION	EXPLANATION / ACTION
TvPass Card Needs Information	
This TvPass Card needs additional information to operate. **Write these numbers down:** **1) Phone ID: 0100-0060-2577-7516** **2) Card ID: 5253-5714-6720-0333** **Leave your TvPass Card installed. Contact your program provider.** **Stay tuned to this channel.**	Your TvPass Card needs additional information to operate. Write down the numbers appearing on **your** screen, leave your TvPass Card installed, stay tuned to this channel, and contact your program provider. Phone ID: _ _ _ _ - _ _ _ _ - _ _ _ _ - _ _ _ _ Card ID: _ _ _ _ - _ _ _ _ - _ _ _ _ - _ _ _ _
Descrambler Not Authorized	
This Descrambler does not have current authorization. **1) Check TvPass Card installation** --- **2) Write these numbers down:** **a) Phone ID: 0100-0060-2577-7516** **b) Card ID: 5253-5714-6720-0333** **Leave your TvPass Card installed. Contact your program provider. Stay tuned to this channel.**	Your descrambler is not currently authorized. Write down the numbers appearing on **your** screen, leave your TvPass Card installed, stay tuned to this channel, and contact your program provider. Phone ID: _ _ _ _ - _ _ _ _ - _ _ _ _ - _ _ _ _ Card ID: _ _ _ _ - _ _ _ _ - _ _ _ _ - _ _ _ _
Wrong TvPass Card In Descrambler	
ERROR **This TvPass Card will not work with this Descrambler.** **Please remove the TvPass Card.** **Return TvPass Card to correct Descrambler.**	Your TvPass Card was authorized in a different VCRS-equipped IRD, and cannot be moved to this VCRS descrambler. You must return it to the original unit.

VIDEOpal Connections & Regulatory Information

FCC-REQUIRED NOTIFICATION

Type Of Service

The built-in VIDEOpal system in the VCRS module is designed to be used on standard telephone lines and connects to the telephone line by means of a standard jack called the USOC RJ11C. Connection to telephone company-provided coin service (central office implemented systems) is prohibited.

Telephone Company Procedures

In order for your telephone company to provide you service, it may occasionally be necessary for them to make changes in their equipment, operations, or procedures. If these changes affect your service or the operation of your equipment, the telephone company should give you notice, in writing, to allow you to make any changes necessary to maintain uninterrupted service. If you have any questions about your telephone line, such as how many pieces of equipment you can connect to it, your telephone company should provide this information upon request. In certain circumstances, it may be necessary for your telephone company to request information from you concerning the equipment which you have connected to your telephone line. Upon request of your telephone company, provide the FCC registration number and the Ringer Equivalence Number (REN) of the equipment which is connected to your line; both of these items are listed on the equipment label. The sum of all the RENs on your telephone lines should be less than five in order to assure proper service from your telephone company. In some cases, a sum of five may not be usable on a given line.

NOTE: The REN for your built-in VIDEOpal system in the VCRS module is 0.38.

If Problems Arise

If any of your telephone equipment is not operating properly, you should immediately remove it from your telephone line, as it may cause harm to the telephone network. If your telephone company notes a problem, they may temporarily discontinue service. When practical, they will notify you in advance of this disconnection. If advance notice is not feasible, you should be notified as soon as possible. When you are notified, you should be given the opportunity to correct the problem and be informed of your right to file a complaint with the FCC.

NOTE: The VIDEOpal order recorder will not work properly at this time if you are on a party line or if operator assistance is required to make long distance telephone calls. Also, if you do not have access to the phone jack on the back of your receiver, you may require an external VIDEOpal Order Recorder, or, your receiver may not allow for VIDEOpal operation. Contact your local dealer to purchase the external recorder or to determine compatibility.

NOTICE FOR CANADIAN USERS

The Canadian Department of Communications label identifies certified equipment. This certification means that the equipment meets certain telecommunications network protective operational and safety requirements. The Department does not guarantee the equipment will operate to the user's satisfaction. Before installing this equipment, users should ensure that it is permissible to be connected to the facilities of the local telecommunications company. The equipment must also be installed using an acceptable method of connection. In some cases, the company's inside writing associated with a single line individual service may be extended by means of a certified connector assembly (telephone extension cord). The customer should be aware that compliance with the above conditions may not prevent degradation of service in some situations.

Repairs to certified equipment should be made by an authorized Canadian maintenance facility designated by the supplier. Any repairs or alterations made by the user to this equipment, or equipment malfunctions, may give the telecommunications company cause to request the user to disconnect the equipment. Users should ensure, for their own protection, that the electrical ground connections of the power utility, telephone lines, and internal metallic water pipe system (if present) are connected together. This precaution may be particularly important in rural areas.

CAUTION: Users should not attempt to make such connections themselves, but should contact the appropriate electric inspection authority, or electrician.

The Load Number for the VCRS with the internal VIDEOpal system is 7.

The Load Number (LN) assigned to each terminal devide denotes the percentage of the total load to be connected to a telephone loop which is used by the device to prevent overloading. The termination on a loop may consist of any combination of devices subject only to the requirement that the total of the load numbers of all the devices does not exceed 100.

The Standard Connecting Arrangement Code for the VCRS with the internal VIDEOpal system is CA11A.

Consumer Security Protection Program

General Instrument VideoCipher Division

CONSUMER SECURITY PROTECTION PROGRAM FOR VCRS UPGRADE AND MODULE SALES

The VideoCipher® Consumer Security Protection Program ("Program") enables consumers to participate in technology changes employed to prevent the unauthorized reception of satellite communications. Although it is against the law, repeated attempts have been made to obtain subscription programming without payment. If a method of descrambling the audio and video portions of the VideoCipher II Plus signal without authorization is developed and implemented (a "Security Break"), it may become necessary to update VideoCipher II Plus technology. The Program is offered to ensure continued access by legitimate subscribers to subscription programming in the event that a Security Break causes subscription programmers to migrate to a new version of VideoCipher II Plus technology to counter signal piracy. Your VideoCipher RS ("VCRS") module represents an enhanced version of VideoCipher II Plus technology.

For three years from the date of either our shipment to you or your purchase of a VCRS module, VideoCipher will provide for the upgrade of your VCRS consumer module as necessary to enable you to receive the subscription programming to which you subscribe, provided (i) such subscription programming is delivered by means of a VideoCipher II Plus scrambling system sold by VideoCipher, and (ii) 70% of subscription programmers, measured by aggregate retail subscription revenues (excluding pay-per-view programmers), upgrade their scrambling systems following a Security Break by migrating to the new version of the VideoCipher II Plus scrambling system and discontinuing transmission of the prior signal.

- Upgrades are only for the purpose of enabling reception of subscribed services. Only subscribers to programming for which scrambling is upgraded will be entitled to obtain upgraded modules or the means to upgrade their modules.
- The Program does not apply to module revisions which add features or improve quality of reception.
- Only unaltered product located in the United States or Canada is covered by the Program. If any product marking or label has been altered, defaced, or removed, or if any product component has been altered, modified, used improperly, or had its housing opened, it will not be eligible for upgrade.
- Module upgrade may be accomplished by modification, replacement or other means at VideoCipher's discretion.
- The Program covers VideoCipher II Plus technology only; it does not include new generation technologies such as DigiCipher™.
- The term of the Program for *Module Sale* consumers extends from the date of consumer purchase; it is not extended by unit modification or replacement.
- Program eligibility requires that receipt of module be substantiated. Please retain your record of receipt of a VCRS module.
- The Program is only available to the first consumer receiving a VCRS module; it is not transferable.
- Shipping, handling, insurance, removal and reinstallation charges are not included.
- VideoCipher determinations regarding alteration, authorized subscriber status, enabling vs. feature upgrades, timing and scheduling of upgrades under this Program are final.
- VideoCipher makes no assurance that any upgrade under this Program will take place.
- VideoCipher is not responsible for programming service charges during any period that the consumer module is not in service due to module upgrade.
- The terms and conditions for the Program are subject to change without notice.

Warranty Information

CHANNEL MASTER MODULE WARRANTY

Please fill out the Warranty Card that follows this page and return it to Channel Master. This will simplify the processing of any necessary warranty repairs.

Programming Copyright Notice

Satellite signals originate from a variety of sources and program suppliers. Some of these signals may be proprietary and intended for reception only by approved subscribers or subscription services. Channel Master assumes no responsibility for the use of home TVRO systems by the purchaser of this module. The Federal Communications Commission has suggested that all TVRO manufacturers communicate to their customers the following policy statement:

"Use of this device may violate Section 605 of the Communications Act of 1934, as amended, through the unauthorized interception and divulgence of radio communications: or, the use of radio communications for one's own benefit where there is no entitlement to its receipt."

Resale of signals received from broadcast satellites is explicitly regulated. In any use of application involving resale or distribution, the user should verify compliance with current laws, regulations, and approved procedures for use. Where required, local and federal licensing or franchise authorization is the sole responsibility of the user. Export of this device requires a valid export license issued by the U.S. Department of State, Office of Munitions Control.

NOTE: Your VCRS module is equipped with a built-in VIDEOpal Order Recorder. The VIDEOpal Order Recorder will not work properly at this time if you are on a party line or if operator assistance is required to make long distance telephone calls. Also, if you do not have access to the phone jack at the back of your receiver, you may require an external VIDEOpal Order Recorder; or, your system may not be compatible with VIDEOpal. Contact your local dealer to purchase the external recorder or to determine compatibility.

©1992 Cable/Home Communication Corp. All rights reserved. VideoCipher® VIDEOpal®and the VIDEOpal logo are registered trademarks of General Instrument Corporation and DigiCipher™, VCRS™ and TvPass™ Card are trademarks of General Instrument Corporation. The Satelite Video Center® is a registered service mark of the Satellite Video Center, a California joint venture.

Covered by one or more of the following U.S. Patents: 4,608,458; 4,613,901; 4,634,808; 4,712,238; 4,792,973; 4865,615; 4,933,896; 4,975,951; 5,081,680; 5,083,293; 5,091,936 and patents pending.

This digital apparatus does not exceed the Class A/Class B (whichever is applicable) limits for radio noise emissions from digital apparatus as set out in the Radio Interference Regulations of the Canadian Department of Communications.

LIMITED WARRANTY

To Original Consumer of the Channel Master VideoCipher RS Module

Channel Master warrants only to the original consumer recipient each Channel Master VCRS module under this limited warranty to be free from defects in materials and workmanship under conditions of normal home use. The limited warranty is for one year on all electrical and mechanical components and runs from the date of original purchase by the original consumer.

1. You must retain your sales receipt or provide other proof of purchase or proof of delivery. If you have no such proof, the warranty will run from the date of first shipment by Channel Master. You should also keep this warranty for your records.

2. Should you require warranty service, return your module to Channel Master, as indicated below under "How to obtain warranty service". Within a reasonable time after receipt of your module, Channel Master shall, at its option, repair or replace the defective part(s) of the affected component. Replacement may be with factory refurbished parts or components. You are responsible for any packing, shipping, and insurance charges associated with sending the component to Channel Master.

3. The warranty does not cover charges for any assembly, installation, set-up or removal or adjustment of controls.

4. This warranty shall be void if any product marking or label has been altered, defaced, or removed, or if any product component has been altered, modified, used improperly, or had its housing opened.

5. Channel Master is not responsible for damages caused by improper assembly, installation, setup or removal, damages or inoperability caused by assembly or use with incompatible products, reception problems caused by inadequate antenna systems, or damage caused by misuse, alteration, improper maintenance, shipment, accident or abuse.

(Cut along dotted line)

Module Return Information Card

Please complete, detach and send this card along with a copy of your sales receipt (or proof of purchase) and module.

(Type or Print Clearly)

Your Name _____

Street Address _____

City _____ State _____ Zip _____

Telephone Number ( ) _____

VCRS Unit I.D. No. _____

Dealer Name _____

Address _____

City _____ State _____ Zip _____

Date of Receipt _____ Receipt No. _____

Explanation of Problem: _____

_____

_____

_____

Attach additional page(s) to this form if necessary

Send to: Channel Master®
Module Department
P.O. Box 1416
Industrial Park Drive
Smithfield, North Carolina 27577

How to Obtain Warranty Service

1. Fill out the Channel Master Return Information Card (enclosed) with a copy of your receipt or other proof of purchase.
2. Pack module safely and securely, preferably in the original shipping carton. Include the completed Module Return Information Card and a copy of your sales receipt.
3. Send module to CHANNEL MASTER Module Department, P.O. Box 1416, Industrial Park Drive, Smithfield, NC 27577. We recommend that you insure this shipment.
4. All packing, shipping and insurance charges to return the module to Channel Master must be prepaid by you. Channel Master will ship module back to you with shipping charges prepaid by us.
5. A qualified technician may be required to remove or install module, and any charges for such work are your responsibility.

NOTE: If the Warranty on your component is expired, voided or inapplicable, Channel Master will not repair the component until you agree to pay for quoted charges. If you do not agree within 30 days, the component will be returned unrepaired. You are responsible for transportation charges both ways on components which are not under warranty. Out of warranty product shall be subject to additional service and repair charges if it is determined that any product label, marking or serial number has been altered, defaced or removed, and/or if a product or component has been altered, modified, used improperly or had its housing opened.

VIDEOCIPHER RS Descrambler Service Information

If your VIDEOCIPHER RS descrambler must be returned for service, it must be de-authorized with your program distributor who may elect to continue to charge you for programming service. When you receive a repaired or replacement unit you must have it authorized under the new unit address number. If you fail to have your VIDEOCIPHER RS descrambler de-authorized, you may be charged by the programmer(s) for the time your component was not in service.

Limitations

CHANNEL MASTER MAKES NO OTHER EXPRESS WARRANTIES ON HOME SATELLITE TELEVISION SYSTEMS AND COMPONENTS. TO THE EXTENT ALLOWED BY LAW, ANY WARRANTY BY CHANNEL MASTER ON A SYSTEM OR COMPONENT (INCLUDING ANY IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS) IS LIMITED TO THE WARRANTY PERIOD APPLICABLE TO THE AFFECTED COMPONENT UNDER THE EXPRESS LIMITED WARRANTY. Some states do not allow limitations on how long an implied warranty lasts, so the above limitation may not apply to you.

IN NO EVENT SHALL CHANNEL MASTER BE LIABLE FOR INDIRECT, EXEMPLARY INCIDENTAL, SPECIAL OR CONSEQUENTIAL DAMAGES (INCLUDING LOST PROFITS AND LOSS OF USE OR PAID TV TIME) BASED UPON BREACH OF WARRANTY OR CONTRACT, NEGLIGENCE, STRICT LIABILITY, OR ANY OTHER LEGAL THEORY. Some states do not allow the exclusion or limitation of incidental or consequential damages, so the above limitation may not apply to you.

NO AGENT, DEALER, DISTRIBUTOR, SERVICE CENTER, COMPANY, OR OTHER PERSON IS AUTHORIZED TO CHANGE, MODIFY, OR EXTEND THE TERMS OF THIS WARRANTY IN ANY MANNER WHATSOEVER. This warranty gives you specific legal rights, and you may have other rights which vary from state to state.

Channel Master® Division of Avnet, Inc.
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