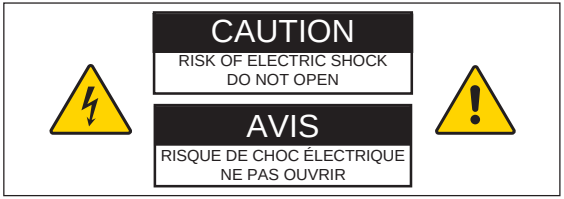
Scientific Atlanta

IR Blaster and VCR Commander™ Service

User's Guide

IMPORTANT RULES FOR SAFE OPERATION



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.

This symbol is intended to alert you that uninsulated voltage within this product may have sufficient magnitude to cause electric shock. Therefore, it is dangerous to make any kind of contact with any inside part of this product.

WARNING

TO PREVENT FIRE OR ELECTRIC SHOCK, DO NOT EXPOSE THIS UNIT TO RAIN OR MOISTURE.

This symbol is intended to alert you of the presence of important operating and maintenance (servicing) instructions in the literature accompanying this product.

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1. Carefully read all safety and operating instructions before operating this product, and retain them for future reference.
2. Follow all warnings and cautions in the operating instructions, as well as those that are affixed to this product.
3. Follow all operating instructions that accompany this product.
4. Do not use liquid or aerosol cleaners. Use a damp cloth for cleaning.
5. Do not expose this product to moisture. Do not place this product on a wet surface, or spill liquids on or near this product.
6. Route all cords so that objects cannot be placed on or against them. This can pinch or damage the cords. Pay particular attention to the points where the cords exit the product.
7. Do not open the cover of this product and attempt service. Refer all servicing to qualified personnel only.
8. For damage that requires service, unplug this product from the IR port. Refer service to qualified personnel under the following conditions:
   a. When there is damage to the cord or plug
   b. If liquid enters, or an object falls on this product
   c. If you expose this product to rain or water
   d. If this product does not operate normally by following the operating instructions
   e. When this product exhibits a distinct change in performance
9. Upon completion of any service or repairs to this product, ask the service technician to perform safety checks to determine that this product is in proper operating condition.

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Introducing the IR Blaster and VCR Commander Service

Setting the timer on your VCR to record programs is now a thing of the past. With the IR Blaster connected to your Explorer® Digital Home Communications Terminal (DHCT) and VCR (or other recording device), recording is quick and easy. The IR Blaster and your DHCT let you use the VCR Commander™ service to record your favorite programs from your VCR.

The IR Blaster may be used with some recording devices other than VCRs, such as a TV with built-in VCR, or a DVD player with personal video recorder (PVR), and some DVD Recordable (DVD-R) and DVD Rewriteable (DVD-RW) devices. For ease in reading this guide and understanding this product, this document only provides instructions for VCRs.

Quick and Easy Recording

With the VCR Commander service you can:

- Record a program you are currently watching by using the one-touch feature
- Record a program that will be broadcast in the future by selecting it from the program guide
- Record a program that will be broadcast in the future by selecting a specific date and time

Fast, Two-Step Set-Up

Set up the VCR Commander service in just two steps:

- First connect the IR Blaster to your Explorer DHCT and to your VCR.
- Then set up the VCR Commander service to work with your brand of VCR.

Easy To Use

After you've set up VCR Commander service you're ready to use it to record your favorite programs. VCR Commander service displays a list of recording options on your TV screen. Simply select a recording option using your remote control.

Step-by-Step Instructions

The instructions in this guide describe how to set up the VCR Commander service and use it to record your favorite programs. For assistance in using related devices, refer to these guides:

- For assistance in setting up your Explorer DHCT, refer to your DHCT user's installation guide.
- For assistance in setting up and using your remote control, refer to your remote control user's guide.

Installing the IR Blaster

This section explains how to attach the IR Blaster and cable connector to the Explorer DHCT and your VCR.

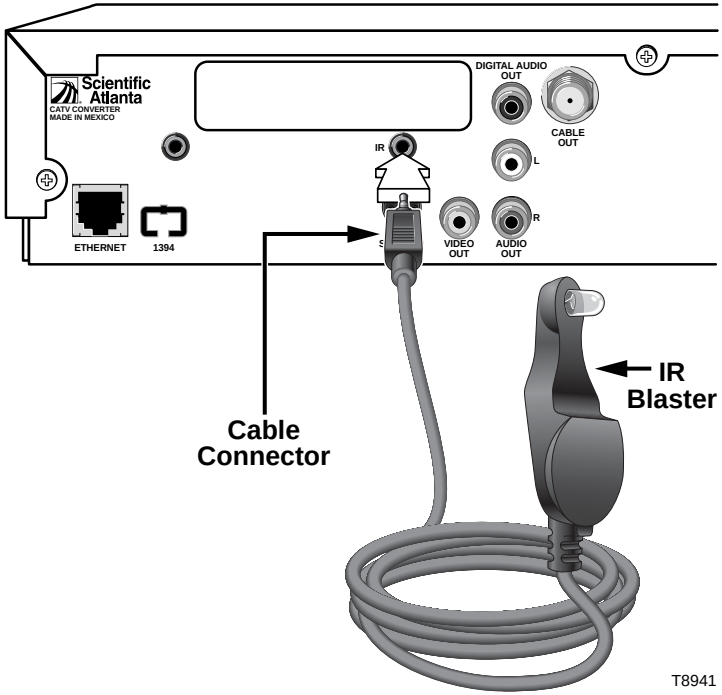
Important: The IR Blaster is designed for use with only Explorer DHCT models in the 4000, 8000, and 8300 series. If you have a 2000 or 3000 series DHCT, contact your cable service provider to return the IR Blaster and obtain the VCR Commander module (part number 574656), which is used with 2000 or 3000 series DHCTs.

Attaching the IR Blaster Cable Connector

> WARNING:
> Avoid electric shock. Disconnect the DHCT from the AC power outlet before attaching the connector.

To attach the IR Blaster cable to the Explorer DHCT, complete these steps.

1. Disconnect the Explorer DHCT from the AC power outlet.
2. Locate the port labeled IR on the back of the Explorer DHCT.
3. Plug the cable connector into the IR port.
4. Reconnect the Explorer DHCT to the AC power outlet.



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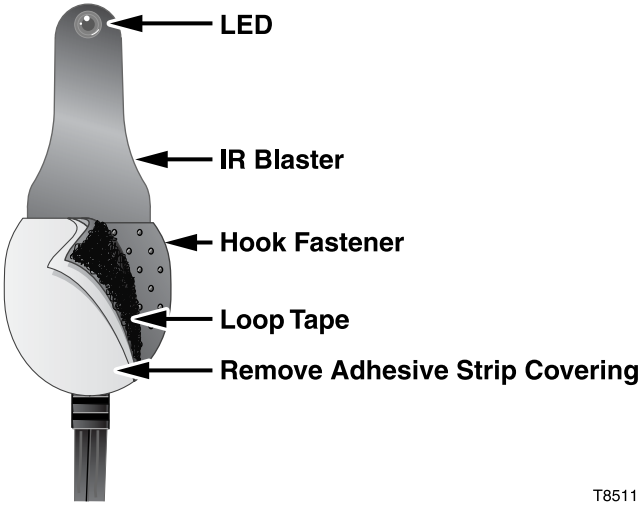
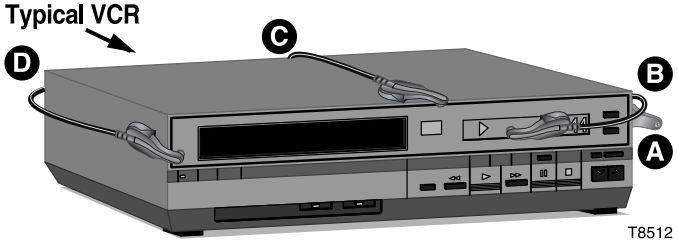
Attaching the IR Blaster to Your VCR

1. Refer to your VCR user's guide to locate the IR sensor window. (The IR sensor is where the VCR receives the remote control signal.)
2. Remove the covering on the adhesive strip from the loop tape, which is attached to the hook fastener on the IR Blaster.

   Notes:
   - Attaching the IR Blaster to the VCR may be easier if the loop tape remains attached to the hook fasteners.
   - After attaching the IR Blaster to the VCR, the hook and loop fastener allows you to easily remove the IR Blaster for cleaning or to move the VCR.
3. Mount the IR Blaster within 3 inches of the IR sensor on your VCR by pressing the IR Blaster against your VCR to secure it.

   Notes:
   - Locations A , B, C, and D are the typical places where the IR Blaster can be attached (within 3 inches of the IR sensor on your VCR).
   - Do not block the tape insert door on your VCR.





Setting Up VCR Commander Service

After you connect the IR Blaster, set up VCR Commander service to work with the make and model of your VCR.

Before You Begin

Before you begin, verify the following status:

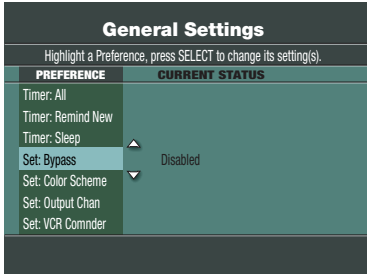
- VCR is off
- TV is on and tuned to your cable channel (3 or 4)

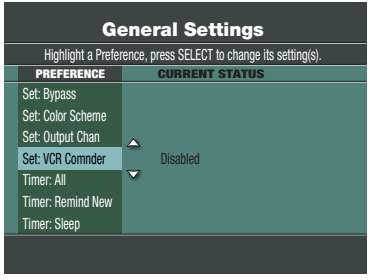
Notes:

- Use your remote control to setup VCR Commander service.
- At any time during this procedure, you can press C or EXIT to manually record a program on your VCR.

1. Turn on the power to your Explorer DHCT.
2. Press SETTINGS twice to display the General Settings menu.
3. Press ▲ or ▼ to scroll to the **Set: VCR Commander** preference; then, press SELECT .

   Note: If the menu does not display the VCR Commander option contact your cable service provider.





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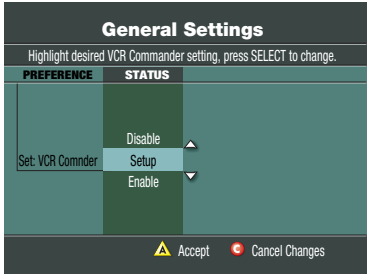
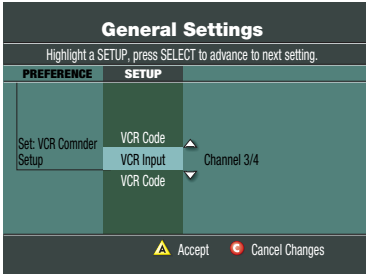
4. Press ▲ or ▼ to scroll to **Setup**, and then press SELECT .
5. Scroll to **VCR Input**, and then press SELECT .





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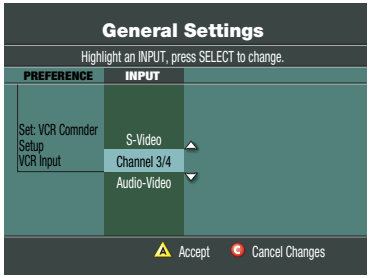
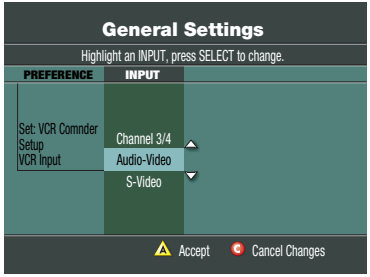
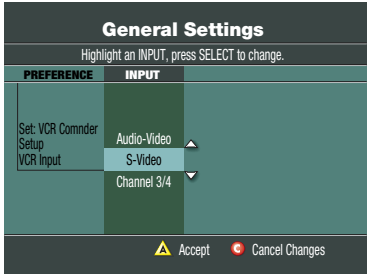
6. Your VCR is connected to your DHCT by one of the following cable types. Locate your cable type in this step and follow the instructions:
   - For RF/coaxial cable, choose **Channel 3/4**, and then press SELECT.
   - For RCA jacks, choose **Audio-Video**, and then press SELECT.
   - For S-Video (SVHS), choose **S-Video**, and then press SELECT.







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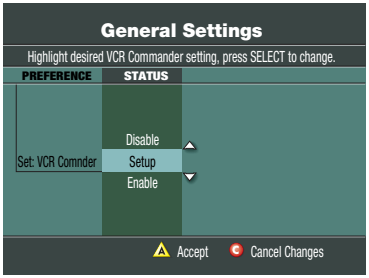
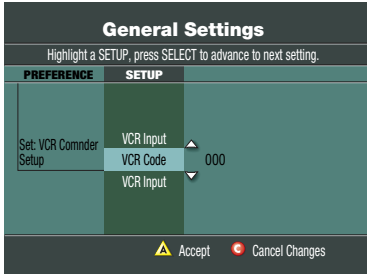
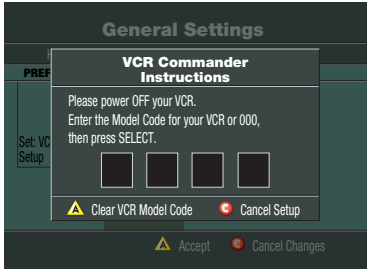
7. Press SELECT again to display the **Status** menu.
8. Press ▲ or ▼ to scroll to **Setup** and press SELECT.
9. Press ▲ or ▼ to scroll to **VCR Code**, and then press SELECT to display the VCR Commander Instructions screen.
10. Turn to the **Manufacturers' Recording Device Codes** section (page 23 of this guide) to find the codes for your brand of VCR. You will need to refer to the code list in step 11.







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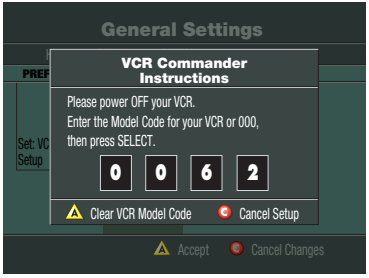
11. Press the number keys on your remote control to enter the 4-digit code for your brand of VCR, and then press SELECT .

    Notes:
    - If more than one code is available for your brand of VCR, use the first code listed.
    - If you enter an incorrect number, press A , and then reenter the code.

12. Wait for the test process to complete and the power to your VCR to turn on.

13. Did the power to your VCR turn on?
    - If **yes**, press A .
    - If **no**, choose one of the following options:
      - There are additional code choices for your brand of VCR; press B and repeat steps 9 through 12 using the next code in your list of choices.
      - There are no additional code choices for your brand of VCR, go to step 18.



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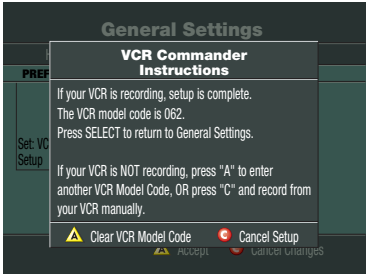
14. Insert a blank tape into your VCR and turn the VCR off.
15. Press SELECT to begin a recording test.
16. Wait for the recording process to begin.



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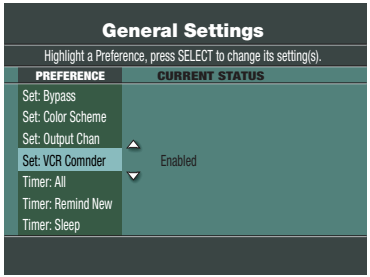
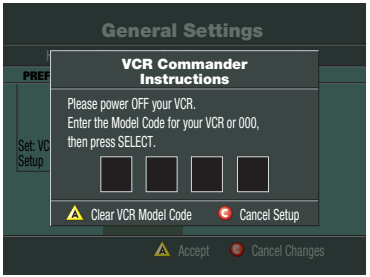
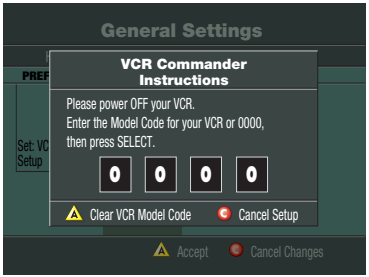
17. Did the VCR begin recording?
    - If **yes**, the VCR Commander service setup is complete. Press SELECT to return to the General Settings menu.
    - If **no**, press A and choose one of the following options:
      - There are additional code choices for your brand of VCR. Enter the next code in your list of choices and press SELECT. Then, repeat steps 12 through 17.
      - There are no additional code choices for your brand of VCR, go to step 18.
18. If none of the codes turn on the power to the VCR and start the recording, enter code **0000**, and then press SELECT.

    Note: The system scans the entire VCR code list. This process can take several minutes.







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19. Wait for the test process to complete.
20. Press SELECT slowly. Repeat until the VCR turns on.

    Note: If the power to the VCR does not turn on, call your cable service provider for help.
21. Press A to begin the recording test process.
22. After you have set up the VCR Commander service, you are ready to record programs using the service. For instructions on ways to record programs with the VCR Commander service, go to **Recording Programs With VCR Commander Service**, next in this guide.

Recording Programs with VCR Commander Service

After you have set up VCR Commander service to work with the make and model of your VCR, you are ready to use the VCR Commander service to record your favorite program in any of the following ways:

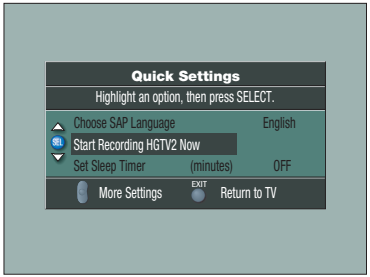
- Record a program you are currently watching by using the one-touch feature
- Record a program that will be broadcast in the future by selecting it from the program guide
- Record a program that will be broadcast in the future by selecting a specific date and time

To record programs using these any of these methods, follow the instructions in this section.

One-Touch Recording

You can instantly record the program you are currently watching using your remote control.

1. Verify that the power to your Explorer DHCT is turned on.
2. Press SETTINGS once while viewing a full-screen TV program.
3. Press ▲ or ▼ to scroll to the **Start Recording...Now** option.



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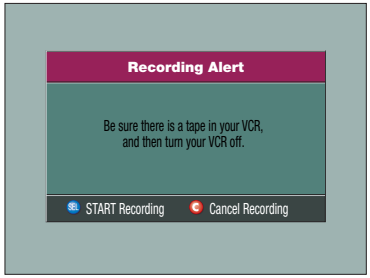
4. Press SELECT to set up the recording process.

   Note: If the VCR Input option was set correctly in the **General Settings VCR Commander Service Setup**, you will see instructions for selecting the Input option of your VCR.

5. Put a blank tape in your VCR.
6. Turn off the power to your VCR.
7. Press SELECT to start recording the program. The DHCT displays **rEc**, which indicates that the recording process is preventing you from using most of the keys on the remote control. This ensures that your recording will not be interrupted accidentally.
8. Verify that the DHCT power is on by checking the LED under the Power button on the front panel. If the LED is not illuminated, press POWER or CBL on your remote control.
9. Press EXIT to stop recording.



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Using the Program Guide

You can program your VCR to record future TV programs, directly from the program guide, using your remote control. You can select up to eight programs to record.

1. Verify that the power to your Explorer DHCT is turned on.
2. Press GUIDE. The program guide appears.
3. Press the arrow keys to locate and highlight the future program you want to record, and then press SELECT.
4. Press ▲ or ▼ to scroll to **Set a VCR Timer for...,** and then press SELECT to set the timer. The programs for which you set timers now appear in red, and the red REC icon indicates that a VCR timer is set.

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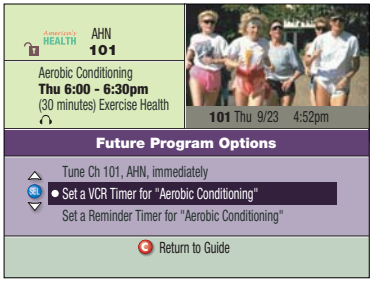
5. Press EXIT to return to the TV program.
6. Put a blank tape in your VCR.
7. Turn off the power to the VCR.

   Note: When you set a timer from the program guide, you are setting a one-time only timer for that program. See **Using the VCR Timer** for information about setting 7-day, weekday only, weekend only, or single-day timers.



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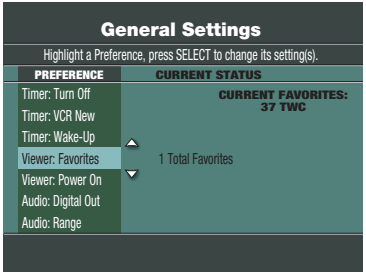
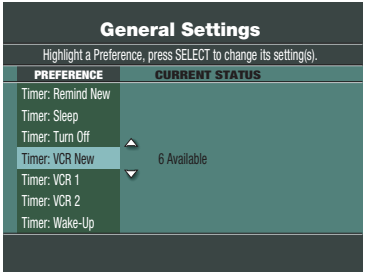
Using the VCR Timer

The VCR Timer sets your VCR Commander service to record programs at specific days and times. Use your remote control to set the channel, day, start time, and stop time of the program or programs you want to record. You can set up to eight timers including the timers set from the program guide.

Important: Do not overlap program times when setting up the VCR timer. A program that you set to record will not begin recording until the previous VCR timer event has stopped.

1. Verify that the power to your Explorer DHCT is turned on.
2. Press SETTINGS twice while viewing a full-screen TV program.
3. Press ▲ or ▼ to scroll to the **Timer: VCR New** option, and then press SELECT .





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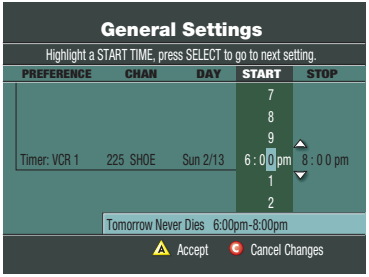
4. Follow the on-screen instructions to set the recording time. Refer to your *Interactive Program Guide for Explorer® Digital Home Communications Terminal User's Guide* for detailed instructions to set the VCR Timer.
5. Press A to accept the timer settings.
6. Put a blank tape in your VCR, and then set the Input option you selected on your VCR.
7. Turn off the VCR.
8. Press SELECT to set the timer, and then press EXIT to return to the TV program.



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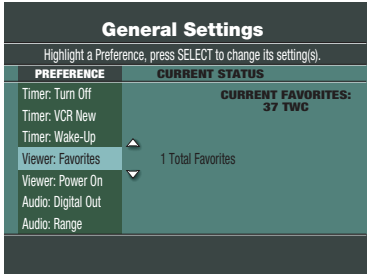
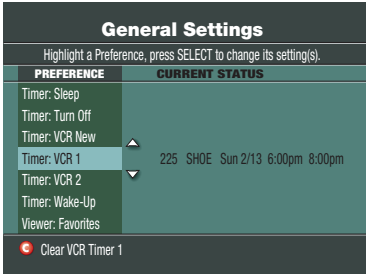
Clearing a VCR Timer

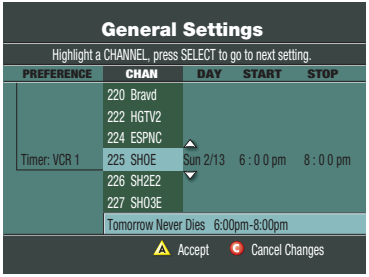
You can clear or delete a scheduled VCR Timer program from the VCR Timer.

1. Verify that the power to your Explorer DHCT is turned on.
2. Press SETTINGS twice while viewing a full-screen TV program.
3. Press ▲ or ▼ to scroll to the **Timer: VCR ...** preference number for the VCR Timer program you want to clear.
4. Press C to clear the timer, and then press EXIT to return to the TV program.

   Note: The program name appears in the current CHAN column.
5. Press C twice to clear the timer.







Manufacturers' Recording Device Codes

Find the code for your brand of VCR or recording device and use this code in **Setting Up the VCR Commander Service** procedure. Start with the first code in the list and continue through the choices. The most common codes are listed first.

VCR	Code
Admiral	0062, 0223, 0562, 0723
Advantz	0370
Adventura	0014
Aiko	0292, 0792
Aiwa	0420, 0321, 0482, 0694, 0014, 0051, 0450, 0551, 0651, 0751, 0851
Akai	0120, 0067, 0055, 0063, 0075, 0170, 0256, 0329, 0555, 0655, 0755
Allegro	1151
America Action	0292, 0792
American High	0049
Asha	0254, 0754, 0854
Audiovox	0292, 0051, 0795, 0551, 0792, 0651, 0751, 0851
Beaumark	0254, 0754, 0854
Bell & Howell	0118, 0618, 0718
Broksonic	0135, 0198, 0223, 0225, 0362, 0493, 1493, 0709, 0516, 0635, 0698, 0723, 0893
CCE	0086, 0292, 0586, 0792
Calix	0051, 0551, 0651, 0751, 0851
Canon	0181, 0049
Capehart	0034, 0534

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VCR	Code
Carver	0095, 0160
Cineral	0292, 0792
CineVision	1151
Citizen	0051, 0292, 1292, 0551, 0792, 0651, 0751, 0851
Clarion	0903
Colt	0086, 0586
Craig	0051, 0086, 0061, 0254, 0285, 0551, 0561, 0586, 0754, 0651, 0854, 0751, 0851
Curtis Mathes	0049, 0055, 0074, 0176, 0555, 0069, 0655, 0755
Cybernex	0065, 0254, 0754, 0854
Daewoo	0534, 0559, 0792, 0575, 0292, 0651, 0034, 0031, 0059, 0101, 1151, 1292
Daytron	0034, 05345
Denon	0056, 0058, 0556, 0558
Dynatech	0014
Electrohome	0051, 0551, 0651, 0751, 0851
Electrophonic	0051, 0551, 0651, 0751, 0851
Emerex	0046, 0546
Emerson	0051, 0057, 0082, 0524, 0651, 0198, 0223, 0050, 0135, 0225, 0575, 0222, 0493, 0075, 0102, 0226, 0292, 0014, 0516, 0551, 0557, 0635, 0698, 0723, 0792, 0893, 0651, 0657, 0751, 0824, 0851, 1292, 1493
Fisher	0061, 0118, 0068, 0080, 0561, 0618, 0718
Fuji	0047, 0049, 0547

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VCR	Code
Funai	0014
GE	0049, 0074, 0079, 0216, 0254, 0069, 0754, 0821, 0854
Garrard	0014
Go Video	0293, 0446, 0364, 0246, 0657, 0677, 0683, 0729, 1151
GoldStar	0051, 0032, 0052, 0494, 0551, 0894, 0651, 0751, 0851
Gradiente	0022, 0014, 0422, 0522
Grundig	0209
HI-Q	0061, 0561
Harley Davidson	0014
Harman/Kardon	0052, 0089, 0095, 0160
Harwood	0082, 0086, 0586
Headquarter	0060, 0560
Hitachi	0056, 0180, 0119, 0014, 0079, 0306, 0055, 0096, 0249, 0555, 0058, 0596, 0655, 0556, 0755, 0558
Hughes Network Systems	0056, 0058, 0556, 0558
Intel	0861
JVC	0081, 0022, 0220, 0221, 0055, 0398, 0881, 0522, 0555, 0083, 0720, 0721, 0898, 0655, 0581, 0755, 0583
Jensen	0055, 0555, 0655, 0755
KEC	0051, 0292, 0551, 0792, 0651, 0751, 0851

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VCR	Code
KLH	0086, 0586
Keen	0707
Kenwood	0055, 0081, 0398, 0052, 0555, 0083, 0898, 0655, 0581, 0755, 0583
Kodak	0049, 0051, 0551, 0651, 0751, 0851
LXI	0051, 0551, 0651, 0751, 0851
Lloyd's	0014, 0222
Logik	0086, 0586
MEI	0049
MGA	0057, 0075, 0254, 0557, 0754, 0657, 0854
MGN Technology	0254, 0754, 0854
MTC	0014, 0254, 0754, 0854
Magnasonic	0607, 1292
Magnavox	0049, 0095, 0014, 0053, 0163, 0607, 1795, 0517, 0553
Magnin	0254, 0754, 0854
Marantz	0095, 0160, 0049
Marta	0051, 0551, 0651, 0751, 0851
Matsushita	0049, 0176
Memorex	0118, 0061, 0493, 0014, 0051, 0062, 0049, 0060, 0254, 0362, 0321, 0053, 0176, 0223, 0313, 0551, 0553, 0560, 0561, 0562, 0618, 0723, 0754, 0651, 0718, 0854, 0751, 0851, 0893
Minolta	0058, 0119, 0056, 0556, 0558
Mitsubishi	0187, 0075, 0089, 0228, 0256, 0057, 0081, 0457, 0557, 0083, 0687, 0583, 0657, 0581, 0821

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VCR	Code
Motorola	0049, 0062, 0562
Multitech	0014, 0086, 0586
NAD	0072
NEC	0052, 0054, 0055, 0064, 0081, 0096, 0118, 0471, 0555, 0083, 0596, 0618, 0655, 0581, 0718, 0755, 0583
Nikko	0051, 0551, 0651, 0751, 0851
Nikon	0048, 0548
Noblex	0254, 0754, 0854
Olympus	0049, 0240
Onkyo	0517
Optimus	0176, 0062, 0072, 0051, 0118, 0446, 0551, 0562, 0607, 0618, 0651, 0718, 0751, 0851
Optonica	0076
Orion	0493, 0198, 0223, 1493, 0516, 0698, 0723, 0893
Panasonic	0049, 0176, 0240, 0091, 0392, 0630, 0239, 0241, 0260, 1376, 1476
Penney	0049, 0254, 0051, 0056, 0052, 0054, 0068, 0551, 0058, 0754, 0651, 0556, 0854, 0751, 0558, 0851
Pentax	0056, 0079, 0119, 0058, 0556, 0558
Philco	0049, 0223, 0493, 0723, 0893
Philips	0095, 0049, 0632, 0076, 0160, 0417, 0517
Pilot	0051, 0551, 0651, 0751, 0851
Pioneer	0072, 0182, 0081, 0083, 0581, 0583

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VCR	Code
Polk Audio	0095, 0160
Portland	0034, 0534
Profitronic	0254, 0754, 0854
Proscan	0069, 0074, 0216
Protec	0086, 0586
Pulsar	0053, 0065, 0553
Quarter	0060, 0560
Quartz	0060, 0169, 0560, 0669
Quasar	0049, 0176, 0091
RCA	0058, 0069, 0754, 0074, 0163, 0216, 0056, 0072, 0119, 0079, 0091, 0120, 0254, 0291, 0467, 0556, 0854, 0558, 0821
RadioShack	0014
Radix	0051, 0551, 0651, 0751, 0851
Randex	0051, 0551, 0651, 0751, 0851
Realistic	0014, 0118, 0061, 0062, 0051, 0049, 0076, 0060, 0080, 0551, 0560, 0561, 0562, 0618, 0651, 0718, 0751, 0851
ReplayTV	0628, 0630
Ricoh	0048, 0548
Rio	1151
Runco	0053, 0553
STS	0056, 0058, 0556, 0558

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VCR	Code
Salora	0089
Samsung	0503, 0059, 0065, 0067, 0254, 0834, 0559, 0754, 0854
Samtron	0657
Sanky	0053, 0062, 0553, 0562
Sansui	0493, 0055, 0014, 0081, 0096, 0223, 0285, 1493, 0555, 0083, 0596, 0723, 0893, 0655, 0581, 0709, 0755, 0583
Sanyo	0061, 0060, 0118, 0254, 0386, 0709, 0560, 0561, 0618, 0754, 0718, 0854
Scott	0198, 0225, 0135, 0057, 0059, 0224, 0226, 0557, 0559, 0635, 0698, 0657
Sears	0068, 0119, 0056, 0014, 0049, 0051, 0060, 0061, 0071, 0080, 0118, 0551, 0058, 0560, 0561, 0618, 0651, 0556, 0718, 0751, 0558, 0851
Semp	0059, 0559
Sharp	0076, 0752, 0062, 0562, 0821, 0862
Shintom	0086, 0586
Shogun	0065, 0254, 0754, 0854
Singer	0086, 0586
Sonic Blue	0630, 0628, 1151
Sony	0047, 0048, 0046, 0650, 0014, 0025, 0036, 0049, 0289, 0653, 0654, 0546, 0547, 0548
Sylvania	0014, 0049, 0057, 0095, 1795, 0835, 0557, 0607, 0657
Symphonic	0014, 0607
TMK	0050, 0222, 0254, 0754, 0854
Tatung	0055, 0555, 0655, 0755

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VCR	Code
Teac	0014, 0055, 0555, 0655, 0755
Technics	0049, 0176, 0260
Teknika	0014, 0049, 0051, 0066, 0551, 0651, 0751, 0851
Thomas	0014
Tivo	0632, 0650
Toshiba	0059, 0071, 0224, 0226, 0057, 0080, 0380, 0517, 1059, 0709, 0557, 0559, 0657, 1022
Totevision	0051, 0254, 0551, 0754, 0651, 0854, 0751, 0851
Unitech	0254, 0754, 0854
Urban Concepts	0517
Vector	0059, 0559
Vector Research	0052, 0054
Video Concepts	0054, 0059, 0075, 0235, 0559
Videomagic	0051, 0551, 0651, 0751, 0851
Videosonic	0254, 0754, 0854
Villain	0014

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VCR	Code
Wards	0049, 0074, 0076, 0014, 0061, 0226, 0254, 0056, 0058, 0561, 0562, 0069, 0586, 0754, 0062, 0086, 0095, 0163, 0556, 0854, 0558
White Westinghouse	0086, 0651, 0223, 0586, 0723
XR-1000	0086, 0014, 0049, 0586
Yamaha	0052
Zenith	0053, 0493, 0651, 0014, 0047, 0048, 0223, 1493, 0517, 0547, 0548, 0553, 0723, 0893, 1151

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TV/VCR Combo	Code
GE	0821
Magnasonic	0607
Magnavox	0607
Mitsubishi	0821
Optimus	0607
RCA	0821
Symphonic	0607

TV/VCR/DVD Combo	Code
Broksonic	0882
Sharp	0821

DVD/PVR Combo	Code
Panasonic	0504, 1024, 1025
Toshiba	1022

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DVD/VCR Combo	Code
Allegro	1151
Apex Digital	1075
CineVision	1151
Daewoo	0847, 1151
Go Video	0847, 1058, 1089, 1151
Panasonic	1776
Polaroid	1075
Rio	1151
Samsung	1089
Sanyo	0887
Sharp	0862
Sony	0878
Sylvania	0607
Zenith	1151

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DVD-RW	Code
Apex Digital	1070
Panasonic	0504
Samsung	0504
Sony	1047

DVD-R	Code
Panasonic	1024, 1025
Philips	0660

Troubleshooting

Check the following list for possible errors. If an error occurs, you may be able to easily resolve it before calling your cable service provider.

Message or Error	Possible Cause	Check and Correct
VCR Commander service did not turn on the power to the VCR for the scheduled recording and/or did not begin recording.	A blank tape is not in the VCR.	Insert a blank tape.
	The VCR is not off.	Turn the power off to the VCR.
	The IR Blaster is improperly positioned.	Move the IR Blaster around until it is in front of or within 3 inches of the sensor window on the VCR.
	VCR Timer is improperly set.	See **Using the VCR Timer** in the **Recording Programs With VCR Commander Service** section.
The VCR Commander Menu option does not appear on the screen.	Your DHCT is not authorized for VCR Commander service.	Call your cable service provider.
After entering your VCR code, the VCR will not turn on.	A blank tape is not in the VCR.	Insert a blank tape.
	The VCR code is incorrect.	Try another VCR code for your VCR brand or enter **0000**. See the instructions in the section on **Setting Up the VCR Commander Service.**
The power to the VCR turned on but did not begin recording.	The incorrect VCR code was entered.	Try another VCR code for your VCR brand or enter **0000**. See the instructions in the section on **Setting Up the VCR Commander Service.**
You recorded an on-screen message (blocked barker), which states the channel was not authorized.	The channel, time, or rating was blocked after the program timer was set.	Set blocking before setting the program timer.
	Program became blocked after One-Touch recording started.	Verify that Parental Control is off before starting a One-Touch recording.

FCC Compliance

This equipment has been tested and found to comply with the applicable limits of Part 15 of 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 or television reception, which can be determined by turning this equipment off or on. The user is encouraged to try to correct the interference by one or more of the following measures.

- Reorient or relocate the receiving antenna.
- Increase the separation between this equipment and the receiver.
- Consult your cable service provider or an experienced radio/television technician for help.

CAUTION:

Any changes or modification to this equipment not expressly approved by Scientific-Atlanta could void the user's authority to operate this equipment.

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