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Important Safeguards

This product has been designed and manufactured to assure your personal safety. Improper use can result in potential electrical shock or fire hazards. Carefully observe and comply with all warnings, cautions and instructions placed on the product, or described in this operating guide or service manual.

WARNING

To guard against injury, these safety precautions should be observed during the installation, use, and servicing of this product.

Read Instructions – All the safety and operating instructions should be read before the appliance is operated.

Retain Instructions – The safety and operating instructions should be retained for future reference.

Heed Warnings – All warnings on the appliance and in the operating instructions should be followed.

Cleaning – Unplug this video product from the wall outlet before cleaning. Do not use liquid cleaners or aerosol cleaners. Use a damp cloth for cleaning.

Attachments – Do not use attachments not recommended by the video product manufacturer as they may cause hazards.

Water and Moisture – Do not use this video product near water – for example, near a bath tub, wash bowl, kitchen sink, or laundry tub, in a wet basement, or near a swimming pool, and the like.

Object and Liquid Entry – Never push objects of any kind into this video product through openings as they may touch dangerous voltage points or short-out parts that could result in a fire or electric shock. Never spill liquid of any kind on the video product.

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

Accessories – Do not place this video product on an unstable cart, stand, tripod, bracket, or table. The video product may fall, causing serious injury to a child or adult, and serious damage to the appliance. Use only with a cart, stand, tripod, bracket, or table recommended by the manufacturer, or sold with the video product. Any mounting of the appliance should follow the manufacturer's instructions, and should use a mounting accessory recommended by the manufacturer.

An appliance and cart combination should be moved with care. Quick stops, excessive force, and uneven surfaces may cause the appliance and cart combination to overturn.



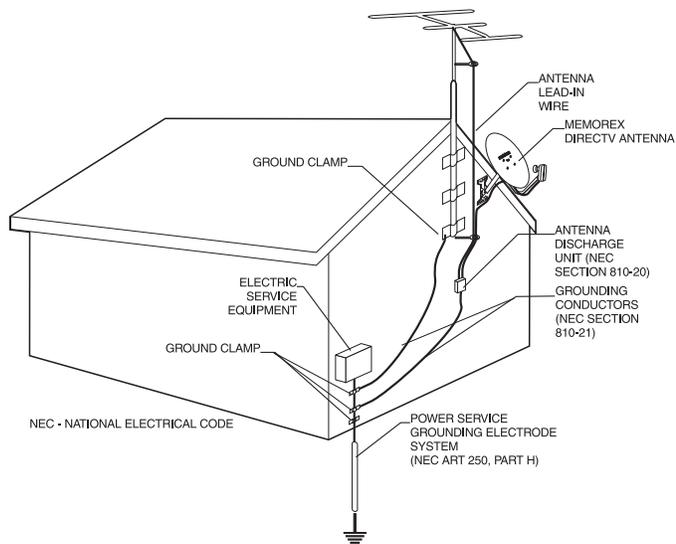
Power Sources – This video product should be operated only from the type of power source indicated on the marking label. If you are not sure of the type of power supply to your home, consult your appliance dealer or local power company. For video products intended to operate from battery power, or other sources, refer to the operating instructions.

Power-Cord Protection – Power supply cords should be routed so that they are not likely to be walked on or pinched by items placed upon or against them, paying particular attention to cords at plugs, convenience receptacles, and the point where they exit from the appliance.

Grounding or Polarization – This video product is equipped with a polarized alternating-current (AC) line plug (a plug having one blade wider than the other). This plug will fit into the power outlet only one way. This is a safety feature. If you are unable to insert the plug fully into the outlet, try reversing the plug. If the plug should still fail to fit, contact your electrician to replace your obsolete outlet. Do not defeat the safety purpose of the polarized plug.

Overloading – Do not overload wall outlets extension cords as this can result in a risk of fire or electric shock.

Outdoor Antenna Grounding – If an outside antenna or cable system is connected to the video product, be sure the antenna or cable system is grounded so as to provide some protection against voltage surges and built-up static charges. Section 810 of the National Electrical Code, ANSI/NAPA No. 70-1984, provides information with respect to proper grounding of the mast and supporting structure, grounding of the lead-in wire to an antenna discharge unit, size of grounding conductors, location of antenna-discharge unit, connection to grounding electrodes, and requirements for the grounding electrode. See the National Electrical Code example below.



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

Damage Requiring Service – Unplug this video 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.
- B. If liquid has been spilled, or objects have fallen into the video product.
- C. If the video product has been exposed to rain or water.
- D. If the video product does not operate normally by following the operating instructions. Adjust only those controls that are covered by the operating instructions. Improper adjustment of other controls may result in damage and will often require extensive work by a qualified technician to restore the video product to its normal operation.
- E. If the video product has been dropped or the cabinet has been damaged.
- F. When the video product exhibits a distinct change in performance, this indicates a need for service.

Safety Check – Upon completion of any service or repairs to this video product, ask the service technician to perform safety checks to determine that the video product is in proper operating condition.

Lighting – For added protection for this video product during a lightning storm, unplug it from the wall outlet and disconnect the antenna or cable system. This will prevent damage to the video product due to lightning and power-line surges.

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

Servicing – Do not attempt to service this video product yourself as opening or removing covers may expose you to dangerous voltage or other hazards. Refer all servicing to qualified service personnel.

FCC Regulations

FCC Registration Information

Your DIRECTV equipment is registered with the Federal Communications Commission and is in compliance with parts 15 and 68, FCC Rules and Regulations.

Notification to the Local Telephone Company

On the bottom of this equipment is a label indicating among other information, the FCC Registration number and Ringer Equivalence Number (REN) for the equipment. You must, upon request, provide this information to your telephone company.

The REN is useful to determine the number of devices you may connect to your telephone line and still have these devices ring when your telephone number is called. In most (but not all) areas, the sum of the REN's of all devices connected to one line should not exceed 5. To be certain of the number of devices you may connect to your line as determined by the REN, you should contact your local telephone company.

Note: This equipment may not be used on coin service provided by the telephone company.

Party lines are subject to state tariffs, and therefore, you may not be able to use your own telephone equipment if you are on a party line. Check with your local telephone company.

Rights of the Telephone Company

Should your equipment cause trouble on your line which may harm the telephone network, the telephone company shall, where practicable, notify you that temporary discontinuance of service may be required. Where prior notice is not practicable and the circumstances warrant such action, the telephone company may temporarily discontinue service immediately. In case of such temporary discontinuance, the telephone company must (1) promptly notify you of such temporary discontinuance (2) afford you the opportunity to correct the situation and (3) inform you of your right to bring a complaint to the Commission pursuant to procedures set forth in Subpart E of part 68, FCC Rules and Regulations.

The telephone company may make changes in its communications facilities, equipment, operations of procedures where such action is required in the operation of its business and not inconsistent with FCC Rules and Regulations. If these changes are expected to affect the use or performance of your telephone equipment, the telephone company must give you adequate notice, in writing, to allow you to maintain uninterrupted service.

Radio Interference

This equipment has been tested and found to comply with the limits for a Class B Digital Device in accordance with the specification in Part 15 of FCC Rules. These rules are designed to provide reasonable protection against radio and television interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation.

If this equipment does cause interference to radio or television reception (which you can determine by unplugging the unit), try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna (that is, the antenna for radio or television that is "receiving" the interference).
- Change the position of the DIRECTV satellite receiver with respect to the radio or television equipment that is receiving interference.
- Move the DIRECTV satellite receiver away from the equipment that is receiving interference.
- Plug the DIRECTV satellite receiver into a different wall outlet so that the DIRECTV satellite receiver and the equipment receiving interference are on different branch circuits.

If these measures do not eliminate the interference, please consult your dealer or an experienced radio/television technician for additional suggestions. Also, the Federal Communications Commission has prepared a helpful booklet, "How to Identify and Resolve Radio/TV Interference Problems". This booklet is available from the U.S. Government Printing Office, Washington, D.C. 20402. Please specify stock number 004-000-00345-4 when ordering copies.

DIRECTV System

What is the DIRECTV System?

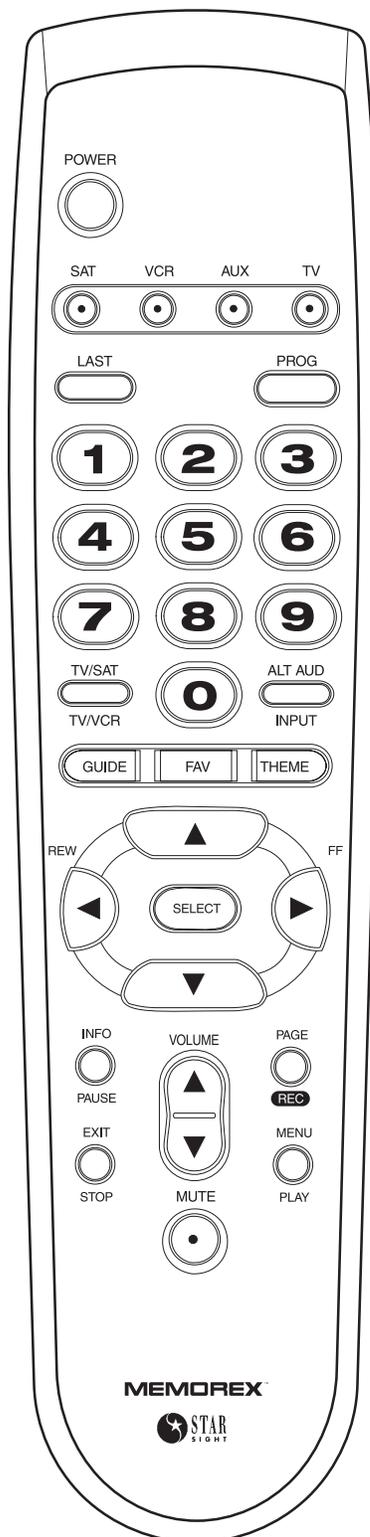
Welcome to the high-tech, sophisticated world of DIRECTV television, often just called a DIRECTV system. This is the ultimate in broadcasting technology, providing a picture and audio quality once only available in laser disc or CDs. There are many advantages to the DIRECTV system like the small dish antenna, digital quality, and hundreds of program choices. And your new MSD5000 also offers you features not commonly found on other receivers.

System Features

- StarSight™ Direct Tuning — Tune directly to a desired channel by program title.
- One Touch Record — Just press one button to easily set the timer to record or view a program.
- Theme Search — Easy theme search by category and sub-category.
- 60 Favorite Channels — Program up to 60 favorite channels for instant access.
- Information Key — With the touch of a button, display information about the current program or about a program in the guide.
- Single Channel Guide — From most guides, you can bring up a list of programs for a desired channel.
- Open/Closed Program Guide — Quickly close the program guide into a “channel surf” mode which allows you to see what is currently on a channel.
- Parental Lock, Rating, & Spending Limits — Using a password for access, you can lock out unwanted channels or set rating and spending limits.
- Universal Remote Control — Your remote control can also control your television, VCR, and cable box, or laser disc player.
- Receiver Control Codes — Your remote control can be programmed so that you can have multiple DIRECTV receivers in your home.
- S-Video & A/V Outputs — Your receiver has both types of outputs so it can easily be integrated with other home equipment, including home theater equipment.
- Wide Band Data Port — This port allows you to connect the DIRECTV system to future services and accessories as they become available. Some additional equipment may be necessary.

Controls and Functions

Remote Control



POWER Turns a selected device on/off.

DIRECTV Select this mode to control your satellite receiver.

VCR Select this mode to control your VCR.

AUX Select this mode to control an auxiliary device such as a cable box, second VCR, or second TV.

TV Select this mode to control your TV.

PROG Use to enter the remote codes for TV, VCR, and AUX devices.

LAST Switches to the previous channel, or changes between channel numbers and channel letters when a guide is displayed.

DIGIT KEYS (0-9) Use to enter numbers such as channels or passwords.

TV/DIRECTV (TV/VCR) Switches the TV output between DIRECTV and TV, and, while in VCR mode, switches between the VCR and TV.

ALT AUD (INPUT) Changes to alternate audio in DIRECTV mode, or selects TV input in TV mode.

GUIDE Displays the Program Guide.

THEME Displays the Themes List for selecting programs from specific categories.

FAV Displays the Favorite List for quickly selecting your favorite channels.

ARROW KEYS Changes channels in normal viewing, or moves the cursor while in the program guides or menus.

SELECT Confirms menu choices, stores screen or program changes you've made, and advances to other options or screens.

INFO (PAUSE) Displays information about a program, or pauses a VCR or laser disc while in VCR mode.

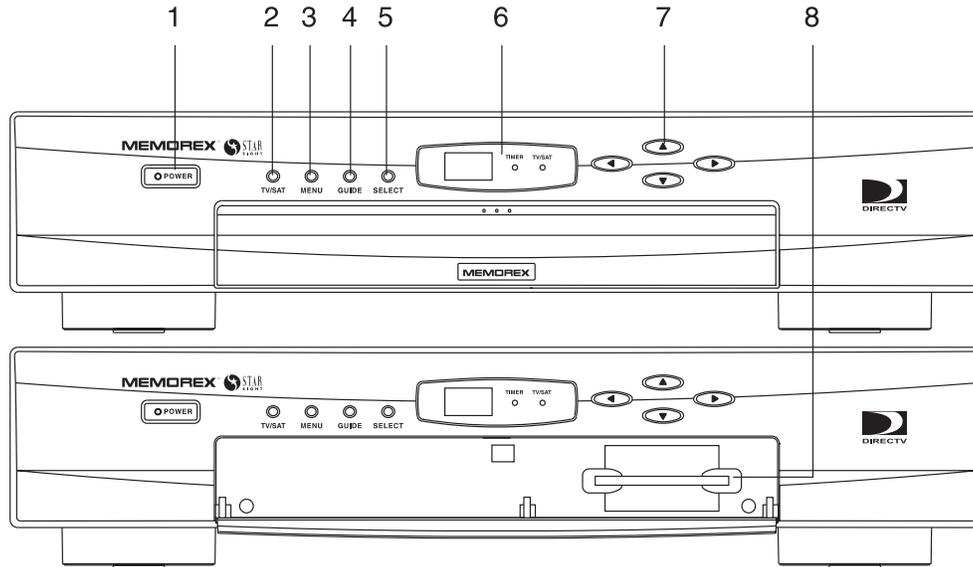
PAGE (REC) Displays the paging screen or starts One-Touch Record while in DIRECTV mode. It starts your VCR's record feature while in VCR mode.

EXIT (STOP) Cancels all screens and returns to normal viewing in DIRECTV mode, or stops a VCR while in VCR mode.

MENU (PLAY) Displays Main Menu in DIRECTV mode, or plays a VCR in VCR mode.

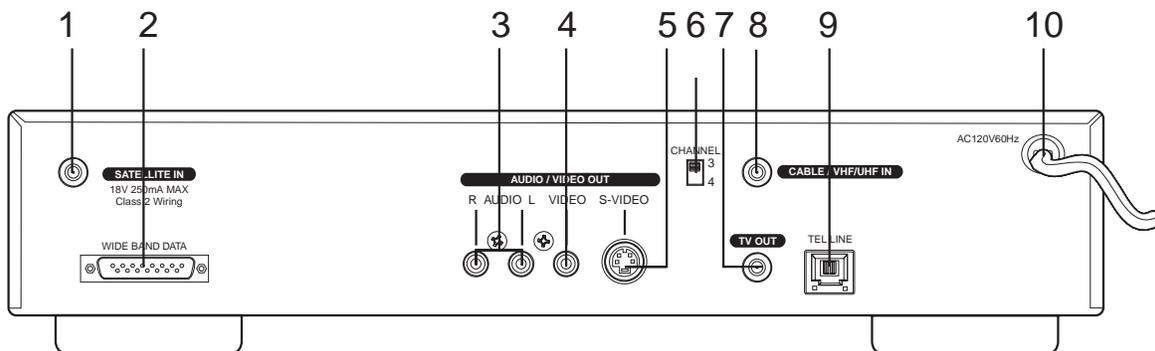
VOLUME (MUTE) Controls the Volume and Mute in all modes when programmed.

Front Panel



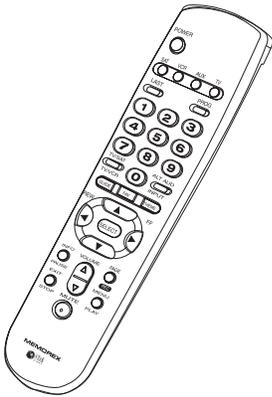
1. **POWER** Turns the receiver on/off. The LED is green when the receiver is on, and it is red when the receiver is on and you have messages.
2. **TV/SAT** Switches between the TV signal or the DIRECTV signal.
3. **MENU** Displays the Main Menu so you can access the DIRECTV system features.
4. **GUIDE** Press once to display the Program Guide, and press again to display the Single Channel Guide.
5. **SELECT** Confirms menu choices, stores screen or program changes you've made, and advances to other options or screens.
6. **TIMER/TV LEDs** The Timer LED lights when a program is setup in memory. The TV LED lights when the TV signal is selected and the DIRECTV receiver is on.
7. **ARROW KEYS** These keys can be used to change channels, select a program from a guide, or to enter information.
8. **ACCESS CARD** Your Access Card provides system security and authorization to a DIRECTV program provider.

Rear Panel

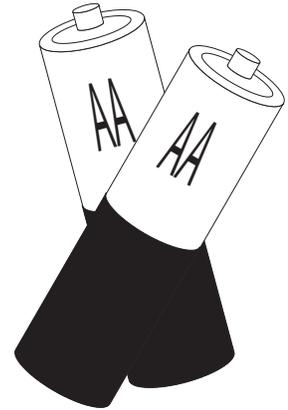


1. **SATELLITE IN** Connects the satellite antenna cable to the DIRECTV receiver.
2. **WIDE BAND DATA PORT** This port allows you to connect the DIRECTV system to future services and accessories as they become available.
3. **AUDIO OUT** Left and right channel audio outputs. These provide better sound quality than TV OUT. Use with VIDEO OUT if your TV has audio/video capability.
4. **VIDEO OUT** Connects you DIRECTV receiver to your TV or VCR. This jack provides better picture quality than TV OUT. Use with AUDIO OUT if your TV has audio/video capability.
5. **S-VIDEO** Video output connector which offers a high-quality video link between your DIRECTV receiver and TV or VCR. If your TV has S-VIDEO capability, use this jack with the audio/video outputs to connect your DIRECTV receiver to your TV.
6. **CHANNEL** This switch allows you to set which channel the receiver will transmit the DIRECTV signals on while using the receiver.
7. **TV OUT** Connect this modulated RF output to the VHF input on your TV or VCR.
8. **CABLE/VHF IN** Connects your cable signal or off-air antenna signal to your DIRECTV receiver.
9. **TEL LINE** Modular phone plug to connect your DIRECTV receiver to your telephone system. The DIRECTV system requires a phone line to communicate with your service provider.
10. **AC CORD** A polarized power cord which supplies AC to your DIRECTV system.

Included with Your DIRECTV System



Remote Control



AA Batteries



Access Card



Operating Guide and Service
Provider Material

Basic Operations

Power On

There are two ways to turn your DIRECTV receiver on:

- Press the Power button on the front of the receiver
- Press the Power button on your remote

Adjusting the Volume

If your remote control is programmed to control your TV, then the Volume and Mute control your TV while in DIRECTV mode.

Note: See “Programming Your Remote” on page 82 for more information about setting your remote to control your TV.

Changing Channels

There are two ways to change channels while watching your DIRECTV receiver:

- Press the Channel ▲ and ▼ keys
- Enter the Channel Number using the Remote Keypad

Using the Arrow Keys

If you press either the ▲ or ▼ key to change channels, your receiver tunes to each channel sequentially.

Press the Channel ▲ key once to select the next higher active channel,

—or—

Press the Channel ▼ key to choose the next lower active channel.

If you press and hold the ▲ or ▼ key, the receiver will change channels quickly.

Using the Remote Keypad

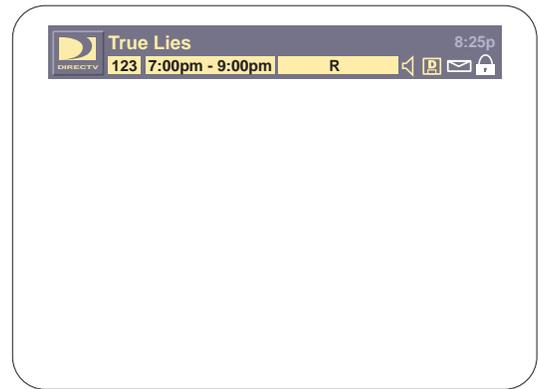
You can also tune directly to a channel by entering its number on the remote’s keypad. For example, to change to channel 221, press (2), (2), (1) on your remote. Once the last digit is entered, your receiver immediately tunes to the channel.

If you only enter the first digit of the channel and press (SELECT), your receiver will tune to the first available channel above what you selected.

For example, if channel 203 is the first channel after channel 200, and you press (2) and (SELECT), the receiver changes to channel 203. The same happens when only two digits are entered, followed by (SELECT).

Channel Banner

Each time you change the channel, the Channel banner appears and shows the current channel, program, time and date. To display this screen in Normal Viewing, press INFO on your remote.



The Channel Banner contains useful information:

- Channel Logo — The logo matches the channel tuned.
- Program Title, Time, and Rating — The Channel Banner shows the program's title, its start and stop times, and its MPAA rating.
- Alternate Audio Icon — This icon displays when the program you're watching is broadcasting alternate audio.
- Data Services Icon — This icon displays when the program you're watching is broadcasting data services for a computer.
- Message Icon — The message icon displays when you have received mail from your service provider.
- System Lock Icon — This icon indicates if your system is unlocked, locked, or is in temporary session unlock.
- Current Time — The current time is displayed in the right corner of the Channel Banner.

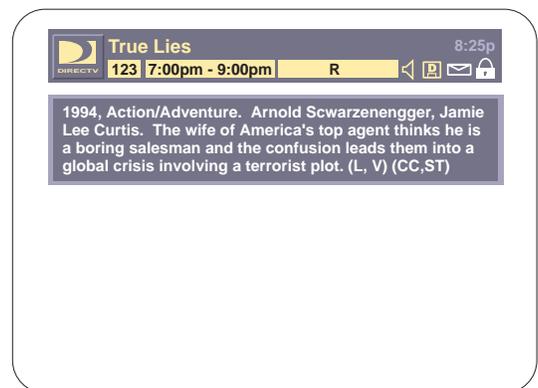
Channel Information

You can find out more information about most programs using INFO.

Press INFO to display the Channel Banner.

Then press INFO again to display the program description, when available.

Press INFO to return to Normal Viewing.



On Screen Programming

What is On-Screen Programming

You have probably heard this term many times, but you may not be really familiar with what it means. Simply, On-Screen Programming makes it easier for you to do the things you want without having to read through lots of information. Just press a button on your remote, read the screen, and select what you want. It's that easy!

For example, lets say you want to know what's on tonight. You could get your daily newspaper or TV magazine, find the right section or day, and then try to find the program you want. Or, you could just turn your TV and DIRECTV system on, take your remote, and press **GUIDE**. Every program available from your service provider can be displayed on-screen. You just scan through the easy-to-read program guide.

If you see something you want to watch, but want to know more about it or who is in it, just press **INFO**. And the description of the show, its time, who's in it, and its rating immediately displays. Your MSD5000 will save you time and make choosing what you want as simple as pressing a button.

How It Works: Highlighting and Selecting

You're probably thinking it's going to take a long time to learn this, right? Well, if you'll remember one simple tip — Highlight and Select. You'll be an expert as soon as you point your remote at your DIRECTV system! There are only a few buttons on your remote that you'll need to learn, and you'll have mastered, "Highlight and Select."

The Arrow Keys and Select

On your remote there are five keys grouped together which allow you to quickly choose any on-screen item: **▲▼◀▶** and **SELECT**. You just press the arrow keys to highlight an item you want on a screen. Once something is highlighted, press **SELECT** to choose it. Selecting an item tells your receiver to go ahead and make the change you've indicated. That's it! That's all there is to On-Screen Programming. If you want to move the highlight up, press the **▲** key. To move the highlight down, press the **▼** key. Each time you press a key, the on-screen highlight moves in the direction of the arrow. When you've highlighted what you want, press **SELECT**.

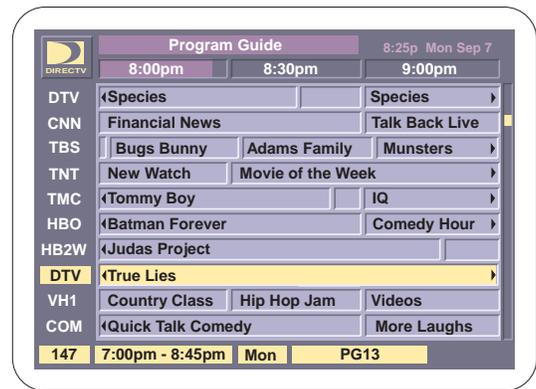
Direct Entry Method

To make it even faster to highlight certain choices, some items on a screen are numbered, such as Menu Items or Channels. To highlight a numbered item, press the number on your remote's keypad. When the number is entered, the highlight moves directly to the entry and selects it. This is a big help if, for example, your changing channels.

Let's say you pressed **GUIDE** and the on-screen Program Guide is displayed. Now you have highlighted channel 202 but you want to skip to Channel 740. You could press the down arrow **▼** and scroll through many channels to get there or just press **7**, **4**, **0** on the keypad and the on-screen highlight would move directly to Channel 740. This helpful time-saver is referred to as the "Direct Channel Entry."

Paging through Menus

One of the great things about the DIRECTV system is there are lots and lots of programs! But, they can't always fit on one screen, so you may see a guide with arrows pointing off the screen or a "window indicator." These indicators just mean there is more to see.



Consider the example above about changing channels. You can use Direct Entry, or you can use the Page Feature. Press PAGE on your remote. Now each time you press **▲** or **▼** the screen moves 9 channels at a time instead of just one. If you press the **▶** key, the Program Guide displays upcoming programs. You can find any program, on any channel, quickly and easily.

Getting Help

"What if I forget?" or "What if I'm not sure what to do?" Well, HELP is usually a choice on every screen. There are two types of help information:

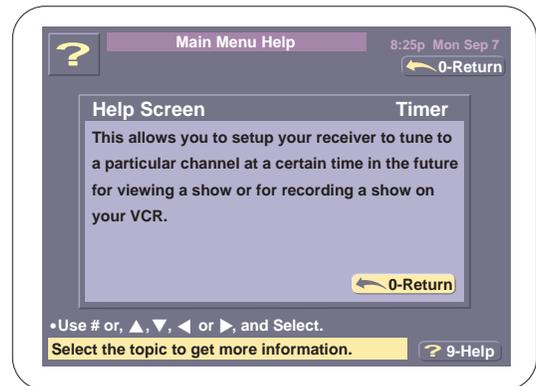
- Quick Instructions
- Help Screens

Quick Instructions

Your DIRECTV receiver is programmed to provide you with the information you need to answer most of your questions right on each screen, so you don't have to look somewhere else. If you're not sure what something is or what it does, highlight the item and look at the yellow help bar at the bottom of the screen. There will usually be a short instruction telling you what the option does. Quick Instructions change automatically and can usually answer your question without having you display another Help Screen.

Help Screens

If you want more information about the screen or feature you're working with, notice the Help Button at the bottom right corner of the screen. This button typically reads (9-HELP), or it may just read (HELP). If you highlight this and press **(SELECT)**, a new help screen displays.



For example, you can get more information about the timer feature by using Help. If you select the Help Button, you would see this screen.

To exit the help screen and return to where you were, simply press **(SELECT)** or **(O)** on your remote keypad.

Return to Normal Viewing

You can return to Normal Viewing anytime you want. Just press EXIT on your remote to cancel all screens and return to the last channel you were watching. So don't hesitate to explore each menu or screen. If you're not sure what to do, press EXIT and start again. Remember, most changes are not stored until you press **(SELECT)**, and you'll always be able to return to any screen and cancel any change you don't want.

The Main Menu

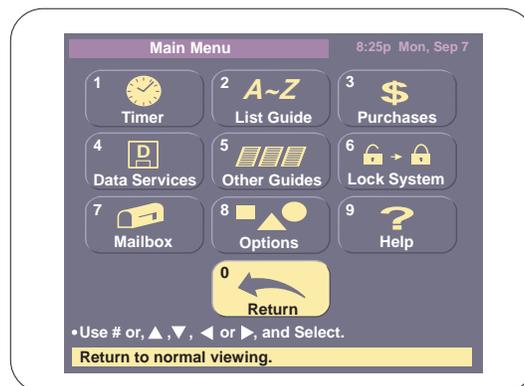
The Main Menu provides you access to many of the special features of your MSD5000 receiver, such as the Timer Screen, Password Setting, and Options Menu.

To display the Main Menu:

Press MENU on the Front Panel

—or—

Press MENU on your Remote Control.



Features

The following is a list of features available on the Main Menu.

- Timer—Set your receiver to view or record upcoming programs.
- List Guide—Display the programs you select in alphabetical order.
- Purchases—Review your past and future purchases.
- Data Services—Select and receive data services provided by your program provider.
- Other Guides—Display other types of program guides.
- Lock/Unlock System—Enable or disables your lock and limits.
- Mailbox—Read and delete messages sent to you by your service provider.
- Options—Select the Options Menu
- Help—Displays the Help Menu Screen.
- Return—Returns you to Normal Viewing.

The Timer

Programming the Timer

The Timer Feature is used to store up to 8 upcoming events. The Timer remembers when the program starts and ends and what channel it will be shown on.

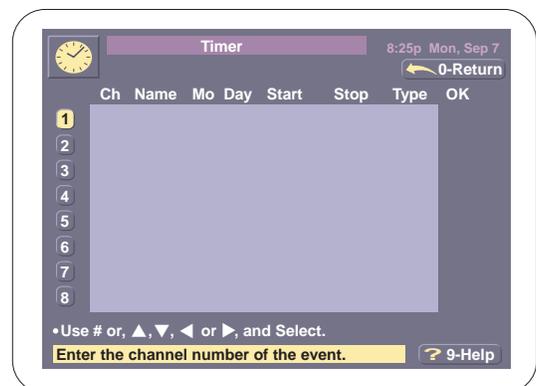
Timer Entry

To manually enter a program in the Timer, follow these steps:

1. Press MENU on your remote.
2. Highlight Timer on the Main Menu and press **SELECT**, or press **1**.

If the system is locked, the Password Screen displays before a program is stored because **ALL LOCKS AND LIMITS ARE DISABLED** for Timer events. So if the program is shown on a channel which is locked, or if the program exceeds your rating or spending limit, the Timer will still tune to the channel at the selected date and time.

3. Enter your personal 4-digit password to continue.



- Highlight one of the 8 events you want to program, and press **(SELECT)** or enter the event number directly.



Note: If an event is stored, the Delete, Change, Disable Screen displays. See "Changing an Event" on page 21.

- Enter channel number of the program you want to store in the timer on your remote.

Note: The channel number of the last channel tuned automatically displays. To select this channel, press the **▶** key until the Month Field is highlighted.



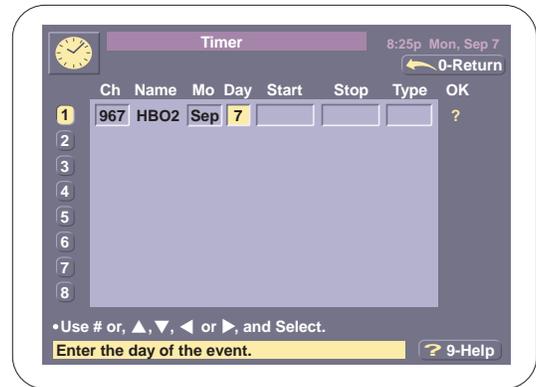
Note: If you want to use **▲** and **▼** to enter numbers in a field, you must remember to press **▶** to continue. For example, in the channel field the first dash is flashing, if you press **▲** until 2 displays, you must press **▶** before entering the next digit of the channel number. After entering all the digits, you must press **▶** again to advance to the next field.

- Use the **▲** or **▼** arrow keys to choose the Month, and press **▶** to advance to the Day Field.



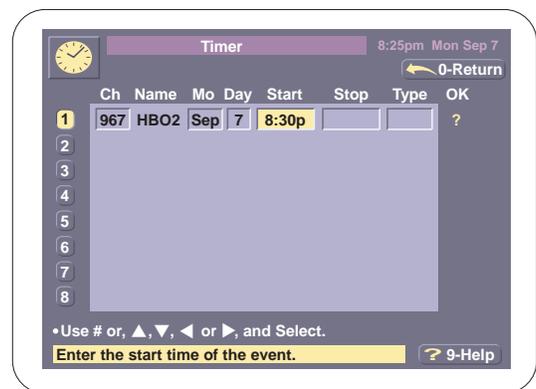
- Use the ▲ or ▼ keys or the number keys on your remote to enter the day.

Press ► to Highlight the next field.



- When the Start Entry Field is highlighted, your receiver automatically rounds the current time to the next half-hour and displays this. For example, if it's 8:20p, then 8:30p automatically displays.

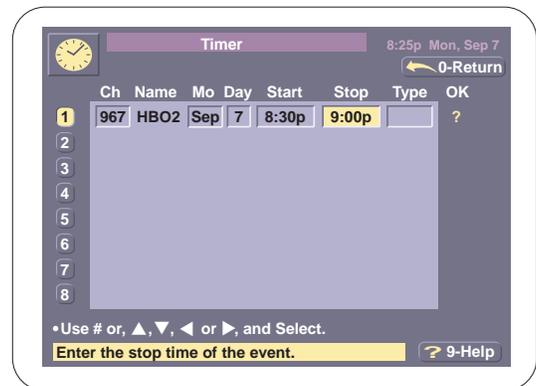
Use the ▲ or ▼ keys or the number keys on your remote to enter the start time, and Highlight the a/p designator.



- Change the a/p designator with either the ▲ or ▼ keys, and Highlight the Stop Entry Field.

- When the Stop Entry Field is selected, your receiver automatically displays the next half-hour after the Start time. For example, if 8:30p is the Start time, then 9:00p appears.

Use the ▲ or ▼ keys or the number keys on your remote to enter the stop time, and Highlight the a/p designator.

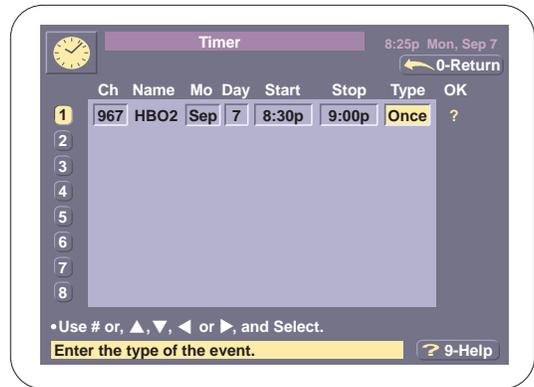


- Change the a/p designator with either the ▲ or ▼ keys, and Highlight the Type Entry Field.

12. Use the ▲ or ▼ keys to choose the type of event, and press **SELECT**.

There are three types of events:

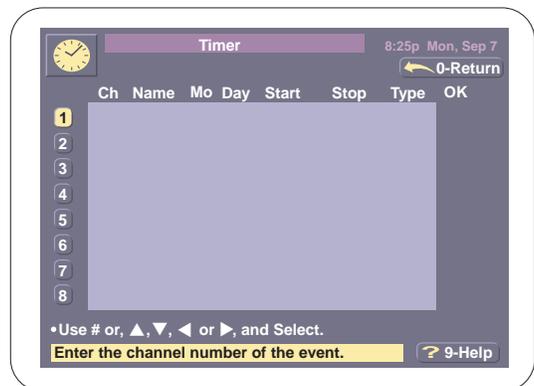
Once—This type of event only occurs one time. After the event has been completed, the event information is removed from the Timer screen.



Daily—This type of event occurs each weekday—Monday through Friday. The event information is not removed from the Timer Screen after the event occurs.

Weekly—This type of event occurs one day every week. The event information is not removed from the Timer Screen after the event occurs.

13. A check-mark appears next to the event to indicate the program is stored and enabled provided there are no errors. After the event is stored, the standard Timer screen returns.



If there are errors in the timer information, then a question mark (?) will appear next to the event, and a warning displays. The event is disabled and the receiver will not tune to the program until the error or conflict is corrected.

After a program is saved in the Timer, you can make changes, delete the event, or disable the event.

Changing an Event

To make a change to a Timer Entry, follow these steps:

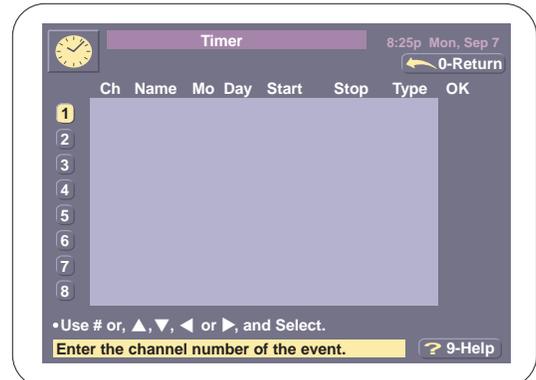
1. Display the Timer Screen, and Highlight the event you want to change.
2. Press **SELECT** to display a Change Screen similar to this.



3. You can choose to Delete, Change, Disable/Enable, or Return.

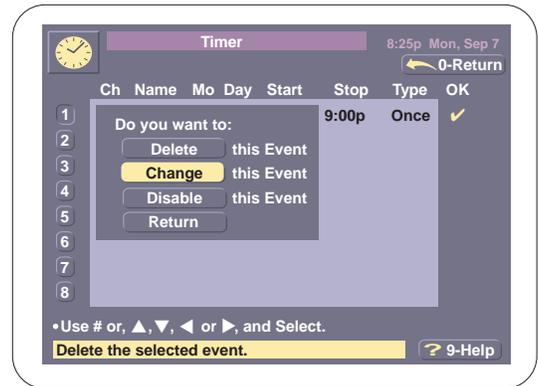
Deleting the Event

If you select Delete, then all of the information for the event is cleared, and the event number is highlighted so you can make another entry.



Changing the Event

If you select Change, then none of the information is cleared and the Timer Screen returns. The check-mark changes to “?”.

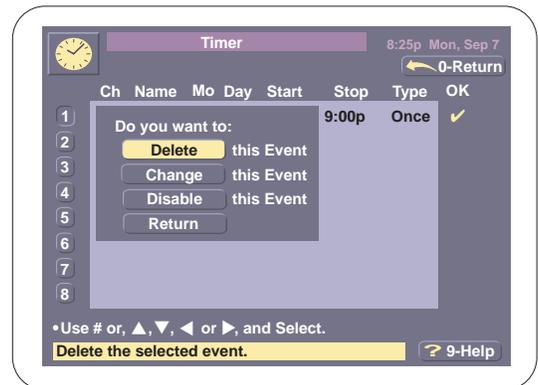


Make the changes you want following the steps in “Programming the Timer” above. After the changes are made, press **(SELECT)** to store the new information. If there are no conflicts, the check-mark displays next to the event.

Disabling/Enabling the Event

To Disable/Enable any event stored in the Timer.

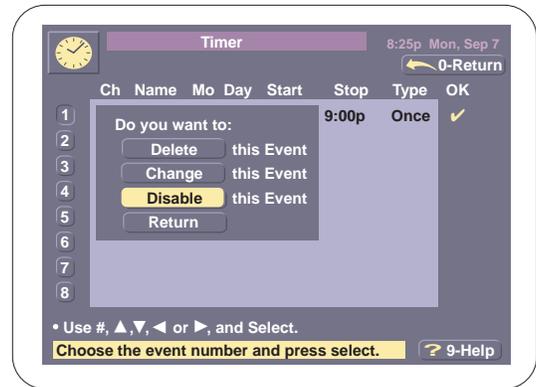
1. Display the Timer Screen, and Highlight and Select the event you want to change.



- If the event has a check-mark in the OK field, Disable displays. Highlight Disable and press **(SELECT)** to disable the event

—or—

If the event has a question mark in the OK field, Enable displays instead. Highlight Enable and press **(SELECT)** to enable the event again.

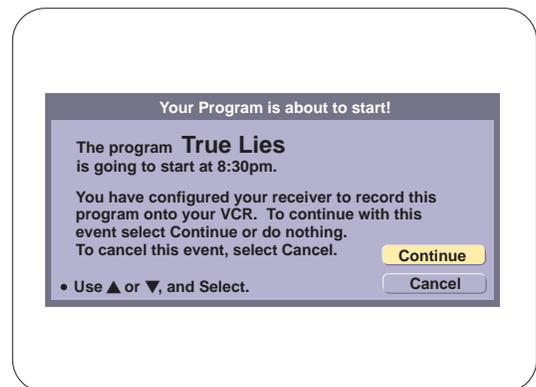


When you disable an event, you're not deleting it, you're simply telling the Timer to ignore the event. It remains stored until you decide to enable it later or delete it from the Timer. Remember though, a disabled event takes up one of the eight available events used to store other programs.

Program Start Announcement

When a Timer event is about to start, a warning message displays one minute before the Event starts.

If you don't interrupt the Timer function, the program starts as scheduled, or you can Highlight Continue and press **(SELECT)** and the program will start as scheduled.



You can cancel the the event by Highlighting Cancel and pressing **(SELECT)**. If you select Cancel, then Start Warning Screen cancels, and the program will not display.

During the Event

During an event, you cannot control any functions on the receiver. All remote control keys as well as the Front Panel keys blocked. You can, however, press EXIT. If you press EXIT, the event is canceled.

Program Guide for Timer Events

If an event is programmed in the Timer, then the Program Guide will show a timer icon in the program's time slot which indicates that a program is stored in the Timer.

List Guides

The List Guide allows you to select a category and one or more sub-categories for programs which are then displayed in alphabetical order. This is helpful if you're trying to find out if your all-time favorite movie is showing!

To set up the List Guide, follow these steps:

1. Press MENU on your remote.
2. Highlight List Guide on the Main Menu and press **SELECT** or press **2**.
3. Highlight the category you want, and press **SELECT**.

Highlight OK and press **SELECT** again.



4. Highlight and **SELECT** each sub-category you want, and then Highlight OK and press **SELECT** again.



5. A guide similar to this displays.



When the List Guide displays, you can:

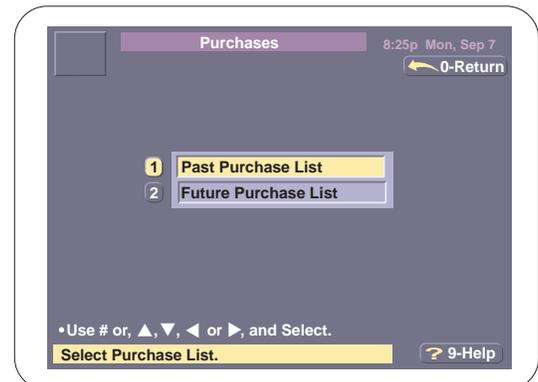
- Highlight and tune to a program which is on
- Get more Information about a program
- Page through the programs or page through upcoming events
- Display a Single Channel Guide for a Highlighted channel.

Purchases

The Purchases feature allows you to review the purchases you made or cancel purchases if they have not been viewed.

To review your purchases, follow these steps:

1. Press MENU on your remote.
2. Highlight Purchases and press **SELECT** or press **3**.



3. Highlight either Future or Past Purchases, and press **SELECT**.

- If you select Past Purchases, a screen similar to this displays.

Use the ▼ or ▲ keys to review your past purchases.



- If you select Future Purchases, a screen similar to this displays.



- Highlight Cancel next to a purchase and press **SELECT** to cancel the upcoming event.



- Highlight Yes to cancel the purchase

—or—

Highlight No to return to the Future Purchases screen.



Data Services

Your DIRECTV receiver can receive Data Services if they are broadcast by your service provider. When you select a channel which includes the Data Services, the DATA ICON displays in the Channel Information Banner.

To view the Data Services Screen, follow these steps:

- Press MENU on your remote.
- Highlight Data Services and press **SELECT** or press **4**.



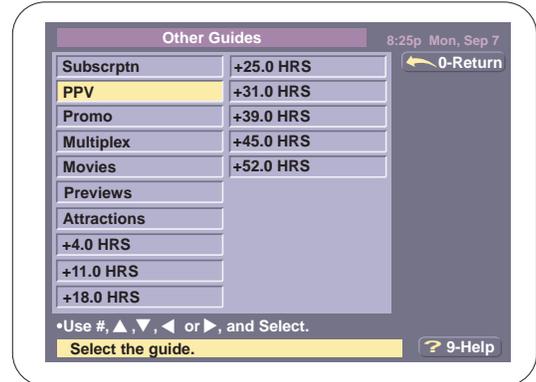
- Highlight the Data Service you want and press **SELECT**.
- Press EXIT on your remote to return to Normal Viewing.

Other Guides

The Other Guides feature allows you to quickly access some of the special guides available to you, like the Attractions or Preview Guides.

To display the Other Guides Screen, follow these steps:

1. Press MENU on your remote.
2. Highlight Other Guides and press **SELECT** or press **5**.



3. Choose the guide you want, and press **SELECT** to display the guide.

Note: Most of the features available in the program guides are available when using this feature.

Lock/Unlock System

Locking Your System

All of the Spending Limits, Rating Limits, and Parental Locked channels are active (i.e. enforced) only when your receiver is locked. So if you set Spending or Rating Limits or decide to lock certain channels so they cannot be watched, remember you must also lock your system.

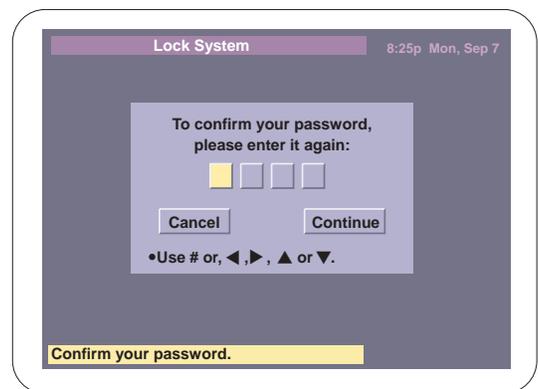
To Lock your system, follow these steps:

1. Press MENU on your remote.
2. Highlight Lock System and press **SELECT** or press **6**.

3. Use your remote keypad to enter a 4-digit password.

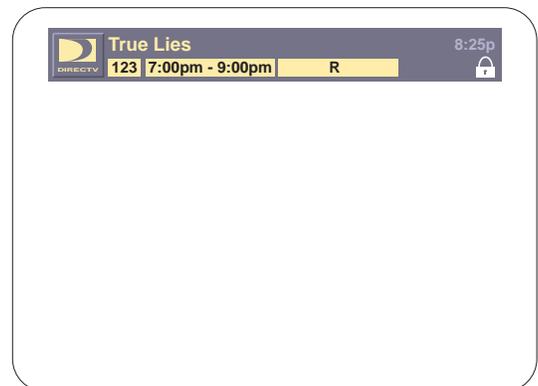


4. Use your remote keypad to confirm your new password.



Once your password is confirmed, your system is locked. All Spending Limits, Rating Limits, and Channel Locks are now active.

5. You can always tell if your system is locked because the lock icon appears when the Channel ID Banner displays.



Unlocking Your System

To Unlock your system, follow these steps:

1. Press MENU on your remote.
2. Highlight UnLock System and press  or press **6**.
3. To unlock your system, use your remote keypad to enter your 4-digit password.



4. After entering the last digit on your remote keypad, Continue is automatically selected and the Main menu displays.



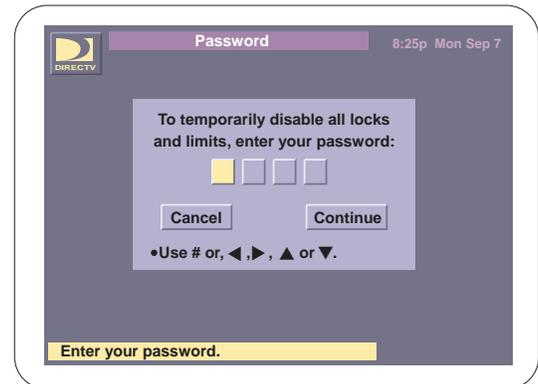
Note If you forget your password, call your Service Provider for assistance.

Once your password is confirmed, your system is unlocked. All Spending Limits, Rating Limits, and Channel Locks are now inactive.

Session Unlock

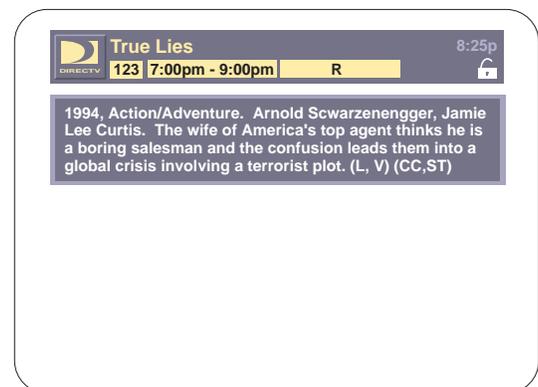
If your system is locked and you choose a channel which exceeds a Spending Limit, Rating Limit, or is Parental Locked, a message displays telling you the channel is blocked. To temporarily unlock your system and view the channel, follow these steps:

1. Press **SELECT**.
2. Use your remote keypad to enter your password.



After you have entered your password, the channel you want displays. However, your system is temporarily unlocked, so all Spending Limits, Rating Limits, and Parental Locks are now inactive.

3. You can always tell if your system is temporarily unlocked because the unlock icon  appears when the Channel ID Banner displays.



When you turn your DIRECTV system off, the Session Unlock is canceled. The next time you turn your DIRECTV system on, it will be locked and all Spending Limits, Rating Limits, and Parental Locks will be active again.

Mailbox

Your mailbox allows your Program Provider to send you information about new services or special features.

How To Tell When You Have Mail

Your receiver indicates that you have new messages in two different ways:

1. If your receiver is off, the Power key on the front panel flashes red
—or—

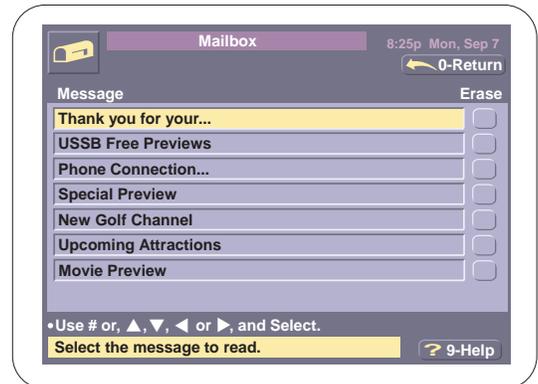
If your receiver is on, the Power Key is red and it flashes when there is a new message.

2. The Mail Icon displays in the Channel Information Banner when there is a new message.

To Read Your Mail

To view your messages:

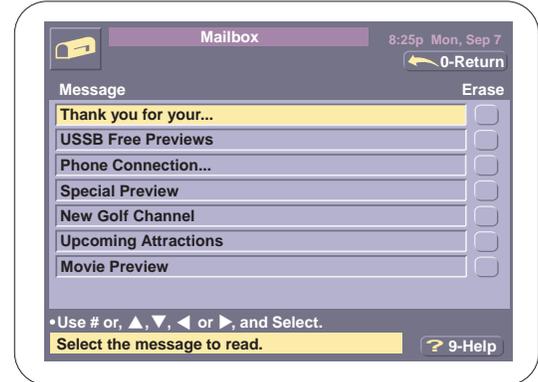
1. Press MENU on your remote.
2. Highlight Mailbox and press **SELECT** or press **7**.



3. Highlight the message you want to read, and press **SELECT** to display the message.
4. Press 0-Return to return to your Mailbox Screen.

To Erase a Message

1. Display your Mailbox Screen.



2. Highlight Erase next to the message you want to delete, and press **SELECT**.



3. Choose Yes to delete the message

—or—

Choose No to cancel and save the message.

Note: There are certain messages which are automatically erased after a period of time.

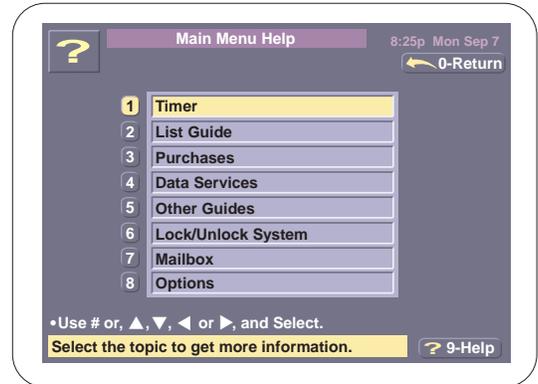
Options

The Options menu allows you to do many tasks, such as set locks and limits, change the picture size, or update a new Access Card. See “The Options Menu” page 35 for more information.

Help

To access help on the Main Menu, follow these steps:

1. Highlight Help and press **SELECT** or press **9**.



2. Highlight and Select the topic you want more information about.

The Options Menu

The Options Menu provides access to features which allow you to modify your MSD5000 to meet your specific needs. For example, you can set Locks and Limits or adjust installation settings. To display the Options Menu, follow these steps:

1. Press MENU on your remote.
2. Highlight Options and press **SELECT** or press **8**.



Features

The following features are available on the Options Menu.

- Select Channel List—Choose between the Master or Custom Channel Lists
- Channel List/Lock—Sets up your Custom Channel List or Lock a Channel to prevent its viewing.
- Limits—Sets the Rating and Spending Limits.
- Text Size—Changes the screen text sizes.
- Install—Displays the Installation Screen.
- Screen Width—Change the aspect ratio for your screen.
- Alternate Audio—Change the default alternate audio.
- Access Card—Change Access cards.
- Help—Displays the Help Screen.
- Return—Returns you to the Main Menu.

Selecting a Channel List

The Select Channel List lets you to display only the channels selected in your Custom Channel List or display the Master Channel List which includes all the channels broadcast by your service provider.

1. Press MENU on your remote.
2. Highlight Options and press **SELECT** or press **8**.
3. Highlight the Channel List and press **SELECT** or press **1**.



4. Highlight either the Master Channel List or Custom Channel List and press **SELECT**.
5. Highlight 0-Return and press **SELECT** to return to the Options Menu.

Channel List/Lock

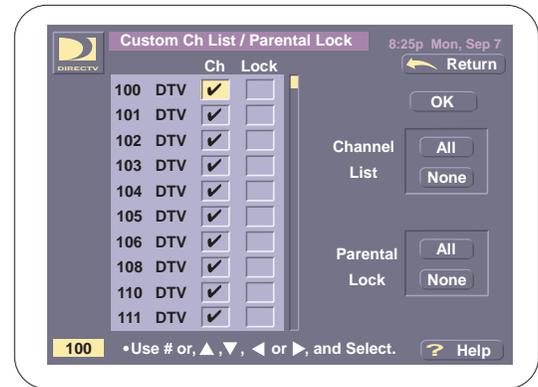
The Custom Channel List/Channel Lock feature allows you to select the channels you want in your custom channel list, and it allows you to prevent the viewing of certain channels in both the Master Channel List and the Custom Channel List.

Setting up a Custom Channel List

1. Press MENU on your remote.
2. Highlight Options and press **SELECT** or press **8**.
3. Highlight ChList/Lock and press **SELECT**.

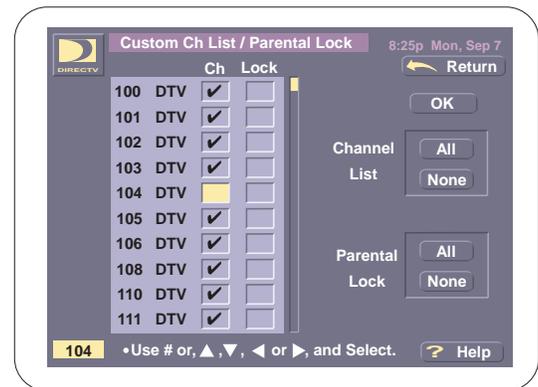
4. Enter your personal 4-digit password, if necessary.

When you first display this screen, all the channels provided are selected. A check-mark appears to the right of each channel number. If you turn the check-mark off, the channel is removed from your Custom Channel List.



When you choose Custom Channel List from the Options Menu, then only the channels checked in the Custom Ch List display when you use the ▲ or ▼ keys on your remote to change channels. Also, only these channels appear in the guides.

5. Highlight a channel's Ch box and press **SELECT** to turn off the check mark.



6. To quickly select all the channels, press All next to Channel List

—or—

To quickly deselect all the channels, press None next to Channel List.

Note: If you uncheck all the channels and select OK, then no channels will appear in your program guides.

7. After choosing the channels for your Custom Channel List, Highlight OK and press **SELECT** to store the changes you've made.

Locking a Channel

1. Press MENU on your remote.
2. Highlight Options and press **SELECT** or press **8**.
3. Highlight ChList/Lock and press **SELECT** or press **2**.
4. Enter your personal 4-digit password, if necessary.

When you first display this screen, no channels are locked. The lock symbol for each channel is blank. If you lock a channel, the  icon appears to the right of the channel number.



Note: If you lock out a channel, you can still tune to the channel during normal viewing; however, if your system is locked, you must enter your password before the program displays.

5. To lock a channel, Highlight its lock box and press **SELECT**.

This locks the channel and displays the  icon.



6. To quickly lock all the channels, press All next to Parental Lock

—or—

To quickly unlock all the channels, press None next to Parental Lock.

7. After choosing the channels you want locked, highlight OK and press **SELECT** to store the changes you've made.

Limits

Set spending or rating limits for a program or a channel with this option.

Setting the Rating Limit

1. Press MENU on your remote.
2. Highlight Options and press **SELECT** or press **8**.
3. Highlight Limits and press **SELECT** or press **3**.
4. Enter your personal 4-digit password, if necessary.



5. Highlight Rating Limit and press **SELECT** or press **1**.



6. Use the ▲ or ▼ key to Highlight the new rating limit you want, and press **SELECT**.

For example, to set R as the new limit, Highlight R and press **SELECT**. Each rating above R will now have a  icon next to it.



Note If you select All, then all your channels will be locked

—or—

If you select None, then no channels will be locked.

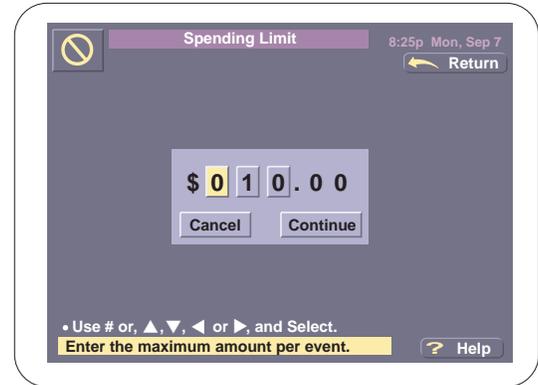
7. Select OK to store the new limit.

Setting the Spending Limits

1. Press MENU on your remote.
2. Highlight Options and press **SELECT** or press **8**.
3. Highlight Limits and press **SELECT** or press **3**.
4. Enter your personal 4-digit password, if necessary.



- Highlight Spending Limit and press **SELECT** or press **2**.



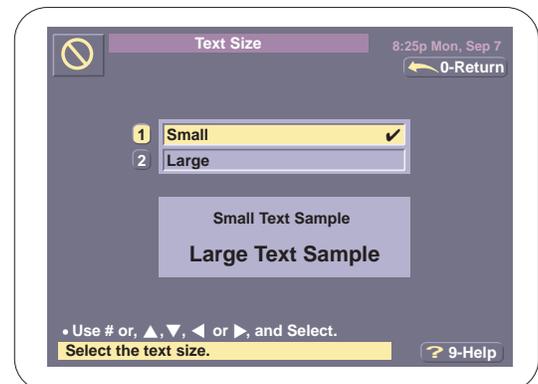
- Enter the amount directly using either your remote keypad or the **▲**, **▼**, **◀**, or **▶** arrow keys.
If you use arrow keys you must highlight Continue after entering the maximum amount for each program.
- Highlight Continue and press **SELECT** to set the new spending limit.

Note: Remember, this is the spending limit for each program.

Changing the Default Text Size

This feature allows you to change the size of the text in some of the Menus and Screens.

- Press MENU on your remote.
- Highlight Options and press **SELECT** or press **8**.
- Highlight Text Size and press **SELECT** or press **4**.



- Highlight either Small or Large and press **SELECT**.

Install Screen

The Install Screen provides useful information which is required when installing your antenna.

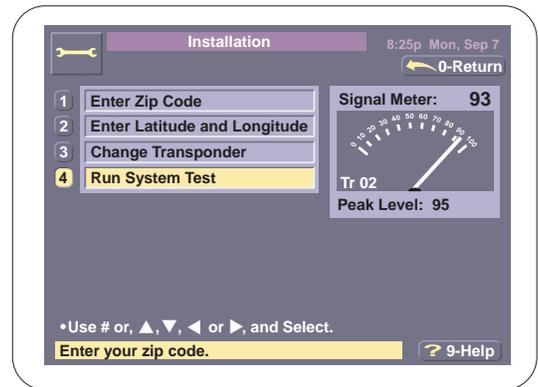
Note Refer to the Installation Guide included with your satellite dish for information about the following Installation Screen choices:

- Entering a Zip Code
- Entering the Latitude
- Changing the Transponder Setting

Running a System Test

The System Test provides a way for you to test the signal, tuning, phone connection, and access card for your receiver.

1. Press MENU on your remote.
2. Highlight Options and press **SELECT** or press **8**.
3. Highlight Installation and press **SELECT** or press **5**.



4. Highlight Run System Test and press **SELECT** or press **4**.

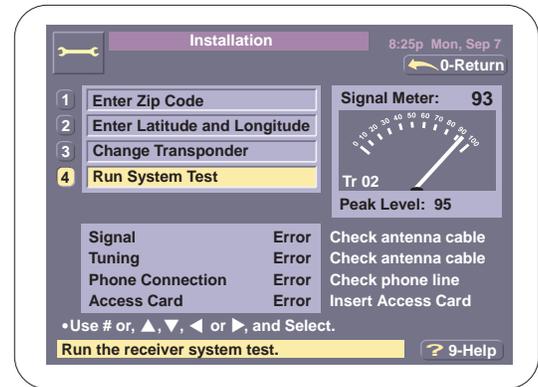
Questions marks “??” appear next to the item tested. When the receiver passes a test, Pass displays and the next test starts.

When the Access Card test is complete, the card number displays if there isn't an error.



- If there is an error during a test, Error displays next to the test.

Follow the troubleshooting tip to locate and correct the problem.

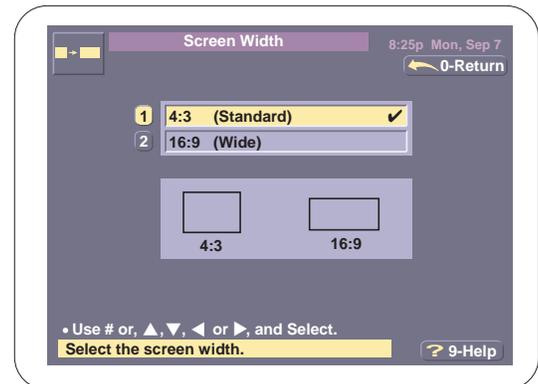


Setting the Picture's Aspect Ratio

This feature allows you to change the aspect ratio for your picture. There are two ratios, 4:3 for regular television and 16:9 for wide screen television. Currently, most video signals broadcast are in a 4:3 aspect ratio.

To change the aspect ratio, follow these steps:

- Press MENU on your remote.
- Highlight Options and press **SELECT** or press **8**.
- Highlight Picture Size and press **SELECT** or press **6**.



- Highlight the Aspect Ratio you want and press **SELECT**.

The screen aspect ratio is changed and the Options Menu returns.

Note You should only use the 16:9 option if you have a wide screen television. Using this option on a standard television may crop your picture.

Alternate Audio

It is possible for a channel to have different audio tracks available, each track with a different language. When you select Alternate Audio for a channel, a different audio may be selected. Use this feature to set which Alternate Audio, or language, you want played when the Alternate Audio Icon is selected.

Note If the default language you select is not broadcast with a program you choose, then English will be the default language.

To change the default Alternate Audio, follow these steps:

1. Press MENU on your remote.
2. Highlight Options and press **SELECT** or press **8**.
3. Highlight Alternate Audio and press **SELECT** or press **7**.



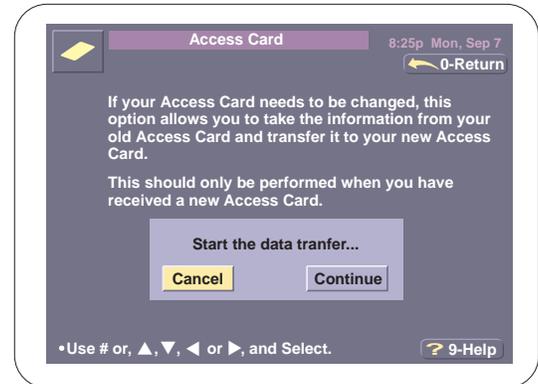
4. Highlight the default language for Alternate Audio, and press **SELECT**.
The default Alternate Audio is changed, and the Options Menu returns.

Updating a New Access Card

Periodically, your program provider may issue you a replacement card. This feature lets you transfer the information from your current Access Card to a new Access Card.

To transfer the information, follow these steps:

1. Press MENU on your remote.
2. Highlight Options and press **SELECT** or press **8**.
3. Highlight Access Card and press **SELECT** or press **8**.



4. Select Continue to transfer or Cancel to return to the Options Menu.

Note: Once you have transferred the information to your new access card, your old card becomes invalid.

Help

The Help option provides information about each Option Menu item.

1. Press MENU on your remote.
2. Highlight Options and press **SELECT** or press **8**.
3. Highlight Help and press **SELECT** or press **9**.



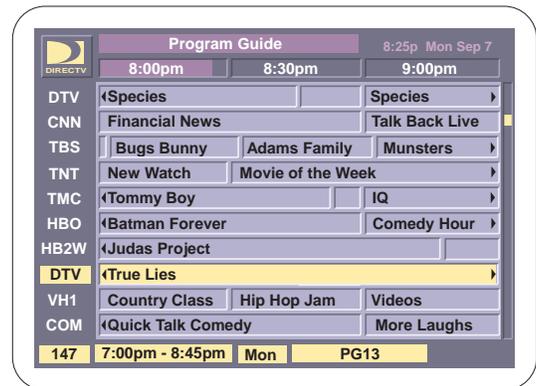
4. Select the Menu Option you want to know more about.

The Program Guide

The Program Guide is an On-Screen schedule of programs. You can use the Program Guide to tune to a program that is showing, or you can use it like a viewing schedule to see what's coming up next. You won't ever have to find some magazine again; you'll just simply press **GUIDE** and see what's on. You can also get more information about a program, change the format to make finding a program easier, or close the guide so you can "channel surf" the many programs available from you program provider.

The Grid Guide

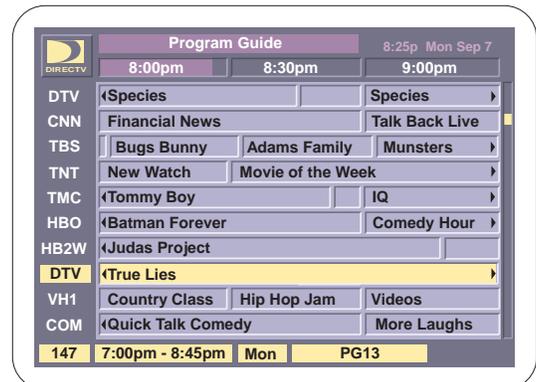
Your Program Guide is presented in a grid format. When you press **GUIDE**, a screen similar to this one displays:



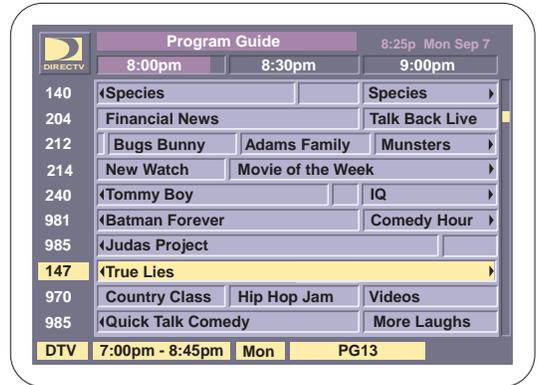
Changing Channel Display

When you select a program guide, you can change the appearance of the channel number display using **LAST**. This key will change between channel abbreviations and channel numbers. To change how your channels display in a guide, follow these steps:

1. Display a guide.



- Press **LAST** to display the channel numbers.



- Press **LAST** again to change back to the channel abbreviations.

Program Information

When you Highlight a program, you'll see the channel number, program rating, and the start and stop times at the bottom of the screen. This information changes each time you Highlight a different program. There may also be different Information icons. There are four icons:



Indicates the system is locked.



Indicates the system is temporarily unlocked.



Indicates the channel is broadcasting more than one alternate audio.



Indicates the channel includes a data signal for a computer.

Time Intervals

There are three half hour intervals displayed at the top of the grid, and you will see a "status" indicator which provides a visual representation of the time that has passed since the first time slot started.

For example, if the current time is 8:25pm, then the "status" indicator shows 25 minutes of the 8:00pm time slot complete.

The grid contains program information for the next 90 minutes. Ten channels are listed, and programs that have started before the current time are shown with a ◀ before their name. Likewise, programs that extends past the current display have a ▶ after their name. You'll also see each channel's abbreviation or its number along the left side of the screen.

Open Grid Guide Features

When the Grid Program Guide is open, you can:

- tune to a program
- get more information about a selected program
- page through the available channels or page forward to see upcoming events.

Tuning to a Program

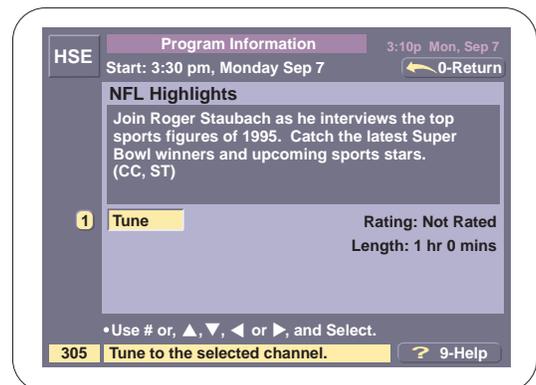
1. Use the arrow keys or enter the channel directly, and then Highlight the program you want.



2. Press **SELECT**.

If the program is showing, your receiver changes to the channel, and removes the Program Guide from the screen.

3. If the program is an upcoming event, a Program Information screen similar to this displays.



4. You can either choose 1-Tune or 0-Return.

If you choose Tune, the Program Information Screen is removed, and the receiver tunes to the selected channel,

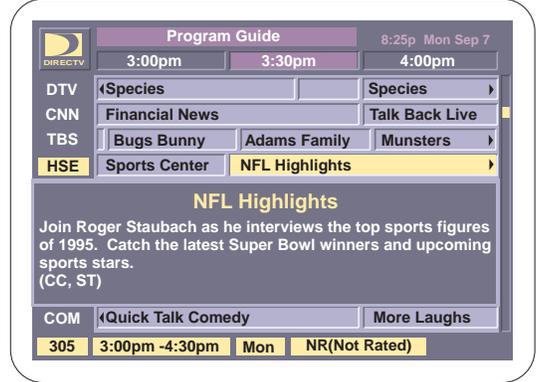
—or—

If you choose Return, the Program Information Screen is removed, and the Program Guide displays.

Press EXIT to remove all screens and return to Normal Viewing.

Getting More Information

You can get more information about a program in the Program Guide. If you Highlight a program and press INFO, a screen similar to this displays:



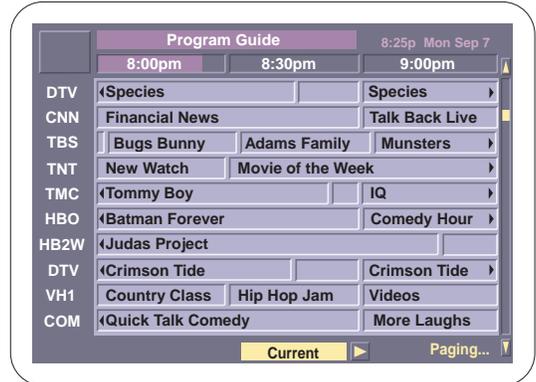
An INFO box typically contains this information:

- Show Title (NFL Highlights)
- Year and Show Type (1995, Commentary)
- Description (What's it about)
- Contents
- Closed Caption/Stereo (CC, ST)

To cancel the information box and return to the guide, press INFO again.

Paging Through Channels

1. Press PAGE on your remote to scan 9 channels at a time.



2. Use the ▲ or ▼ key to scroll through the available channels broadcast by your service provider. The window indicator along the right side of the Paging screen indicates what section of the channels are currently in the viewing window.

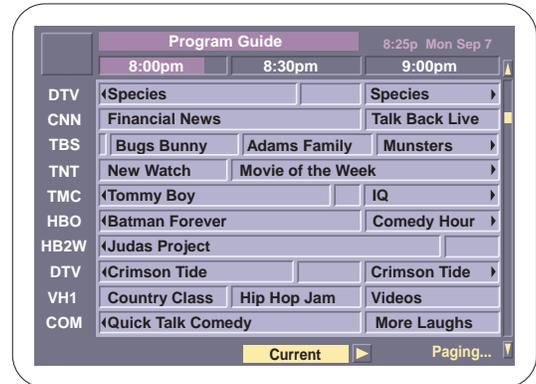
Note: You can only use the arrow keys while paging.

3. Press PAGE again to cancel paging.

Paging Through Upcoming Events

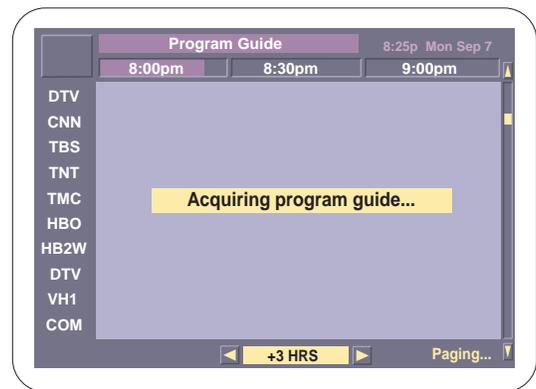
The Program Guide broadcast by your service provider usually has several hours of programming for each available channel. You can view the upcoming events using your page feature.

1. Press PAGE on your remote. Notice Current is shown in a horizontal paging window at the bottom of the screen.



2. Use the ► key to page forward (horizontally) through upcoming events. As you move forward, you are simply accessing upcoming time slots.

Sometimes there is a short pause while the new guide is acquired, and you'll see this screen.



Note: You can only use the arrow keys while paging.

3. Once an extension guide is acquired, it looks similar to this.

The title of the screen shows how far you have advanced. For example, Program Guide + 3.0 HRS.



4. Press PAGE again to cancel paging.

The Closed Program Guide

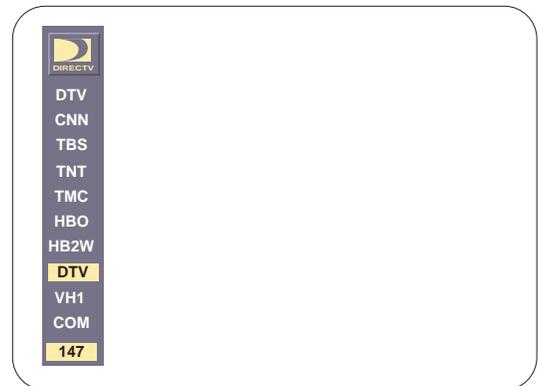
You can close the Program Guide to display only the channel logo, the channel abbreviation, and its number. This is helpful because as you change channels, your screen displays what's currently on for the highlighted channel.

Selecting Open or Closed Guide

Your receiver always remembers which guide was open last, so if you've closed the Program Guide, it remains closed each time you press **GUIDE**. Likewise, if the Program Guide is open, it will display in its grid format each time **GUIDE** is selected.

To change from Open to Closed, follow these steps:

1. Highlight any program in the first time slot.
2. Press the **◀** key.



3. To reopen the Program Guide, press the **▶** key.

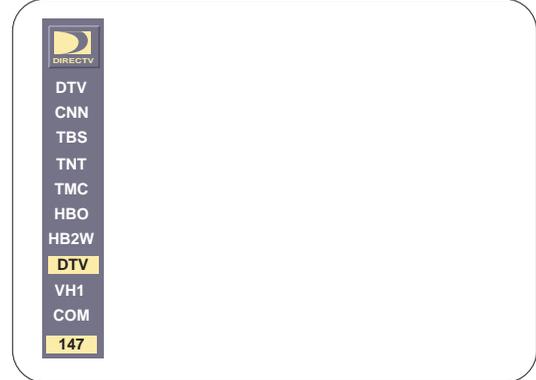
Closed Program Guide Functions

When the Program Guide is closed, you can:

- channel surf
- get more information about the program's provider
- page through the available channels

Channel Surfing

The “Channel Surf” feature allows you to quickly move through the channels. The Closed Program Guide displays to the left of your screen, while the current program for the highlighted channel displays in the background.

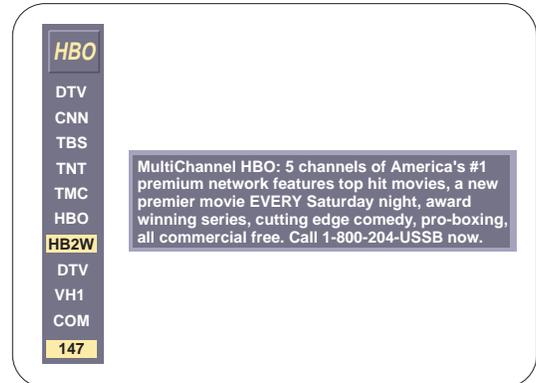


Use either the ▲ or ▼ keys to choose one of the channels listed, or enter the channel number you want on your remote keypad. As you highlight different channels, the channel number at the bottom left of the screen changes, and the channel logo at the top left matches the channel selected.

If you want to tune to a channel highlight the channel you want, and press **SELECT**.

Getting Channel Information

If you press INFO while a channel is highlighted in the Closed Program Guide, a Program’s Provider Information screen similar to this displays:



Press INFO again to cancel the information and return to the Normal Closed Guide.

Paging Through Channels

1. Press PAGE on your remote to scan 9 channels at a time.



Note: When PAGE is selected in Closed Program Guide, the highlighted channel remains tuned while you're in Paging Mode.

2. Use the ▲ or ▼ key to scroll through the available channels broadcast by your service provider. The window indicator along the right side of the Paging screen indicates what section of the channels are currently in the viewing window. You can only use the arrow keys while paging.
3. Press PAGE again to cancel paging.

If you press EXIT, all the screens are removed, and the previous channel is tuned.

Single Channel Guide

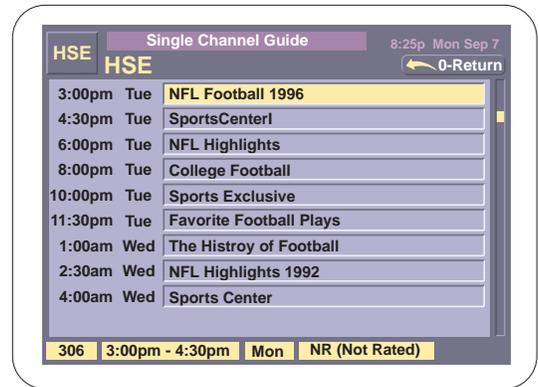
The Single Channel Guide is a variation of the Program Guide. It allows you to display the upcoming programs for a single channel. The Single Channel Guide can be selected from both the Open and Closed Program Guides.

1. Press **GUIDE** to display the Program Guide.



2. Highlight the channel you want using either the arrow keys or direct entry.

3. Press **GUIDE** again.

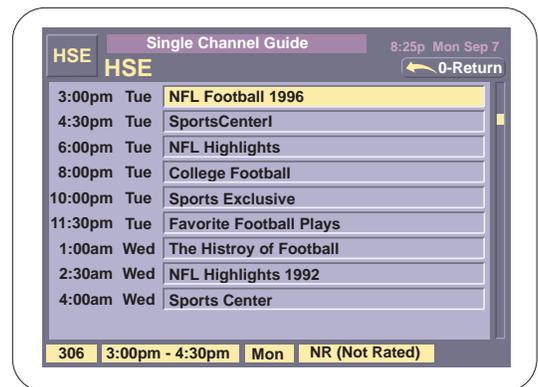


When the Single Channel Guide is displayed, you can:

- tune to a current program
- get more information about the selected program
- page through the available programs
- select another channel

Tuning to a Program

1. Use the **▲** and **▼** arrow keys to Highlight the program you want.

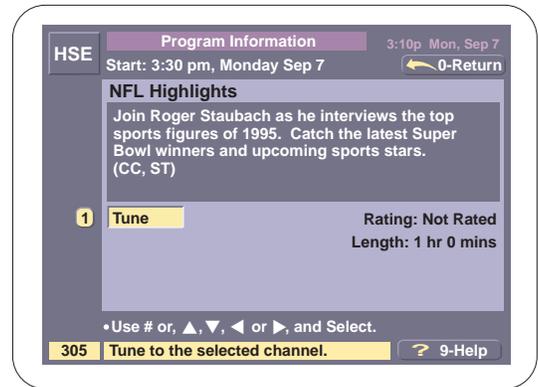


2. Press **SELECT**.

If the program is showing, your receiver changes to the channel and removes the Single Channel Guide.

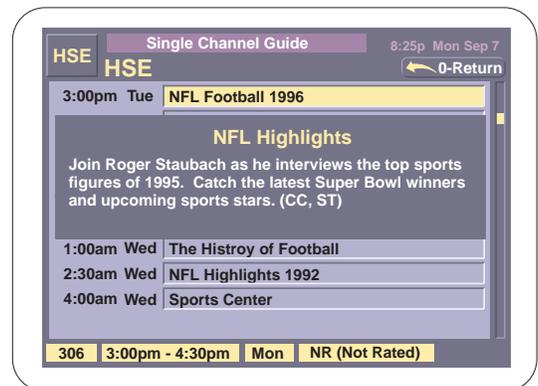
- If the program is an upcoming event, a Program Information screen similar to this displays.

For more information about tuning to an upcoming event, see “Tuning to a Program” on page 49.



Getting More Information

You can get more information about a program in the Single Channel Guide. If you Highlight a program and press INFO, a screen similar to this displays:



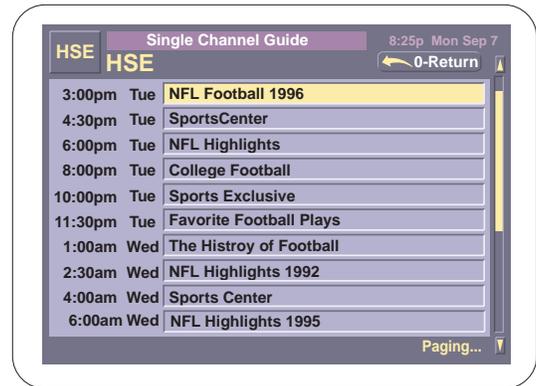
An INFO box typically contains this information:

- Show Title (NFL Highlights)
- Year and Show Type (1995, Commentary)
- Description (What's it about)
- Contents
- Closed Caption/Stereo (CC, ST)

To cancel the information box and return to the guide, press INFO again.

Paging Through Programs

1. Press PAGE on your remote to scan 9 upcoming events at a time.



2. Use the ▲ or ▼ keys to scroll through the upcoming events listed in the Single Channel Guide. The window indicator along the right side of the Paging screen indicates how much of the list remains.

Note: You can only use the arrow keys while paging.

3. Press PAGE again to cancel paging.

Selecting Another Channel

You can change channels while the Single Channel Guide is displayed, and the guide will automatically be updated.

If you press ◀, the Single Channel Guide for the next lower channel displays,

—or—

If you press ▶, the Single Channel Guide for the next higher channel displays.

For example, if the Single Channel Guide for channel 948 is displayed, and you press ◀, then the Single Channel Guide for channel 947 displays.

You can also enter another channel on the remote keypad, and its Single Channel Guide will display.

Favorites

By now you probably know there are many channels, but you may not want to look through all the different channels to find the programs you like best. Favorites provides the opportunity for you to store 10 of your most watched channels in an easy access guide.

Now instead a paging through all the channels in the Program Guide, you can simply select one of the six different Favorite Guides and immediately find what you like to watch.

Favorite Profiles

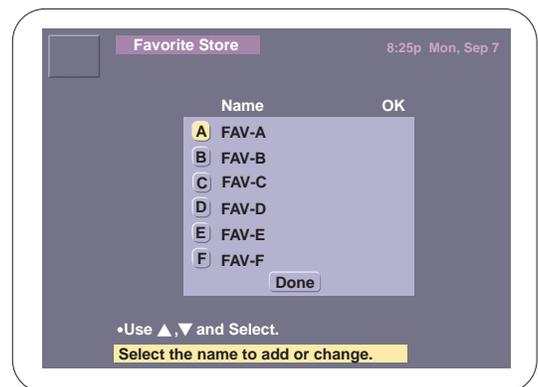
There are 6 different profiles in Favorites which each store up to 10 of your favorite channels. Each profile can be given a different name, so everyone in your family can have there own "Favorites" guide. Or you can set up different categories like Sports, Movies, News, etc, and then store different channels in each category. When you recall the Sports Favorites, for example, all of your favorite sports channels will be displayed for you.

Storing Favorites

To set up a profile in Favorites, you must display the Favorite Store Screen.

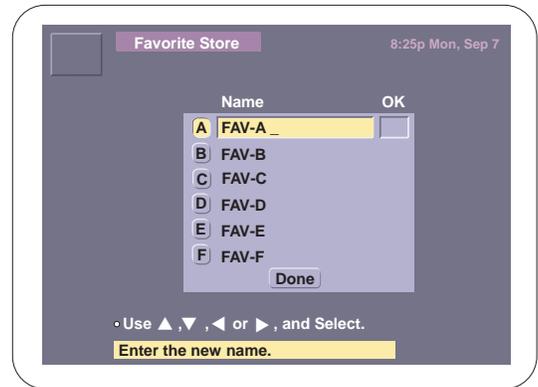
Note When you recall the Favorite Store screen the first time, there are no profiles stored, so the Favorites Store screen displays. This allows you to setup the names of your profiles.

1. Press and hold  for three seconds.



2. Use the ▲ and ▼ keys to Highlight the profile you want to create.

- There are 10 character positions available for each name. Use the ▲ and ▼ keys to change the characters, and the ◀ and ▶ keys to select the position of the character. You can use the following characters:



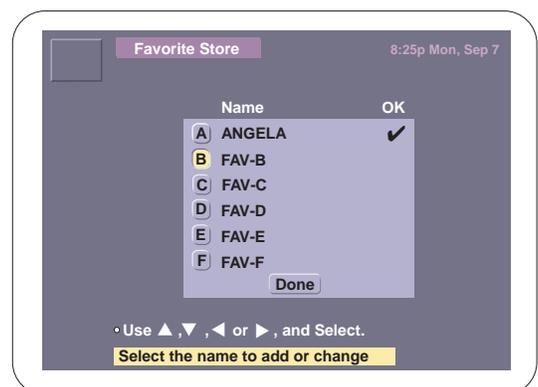
You can use these letters, numbers, or symbols in the name box:

- A-Z, a-z
- Numbers 0-9
- , / , * and blank

- After entering each character of the name, press the ▶ arrow key to Highlight the OK box.



- Press **SELECT** to place a check-mark in the box.



Note: You must check OK for the profile to be active. If a profile is not active, it will not be available for recall.

- Highlight DONE and press **SELECT**.



- Press **SELECT** to display the list of available channels.



- Highlight the channel you want, and press **SELECT**.



Making Changes to a Favorite

1. Press and hold **FAV** for three seconds.



2. When you recall the Favorite Store Screen, the last profile viewed appears at the top of the screen. To change to a different profile, Highlight 1-Select Name and press **SELECT**, or press **1**.



3. All of the active profiles display. If only one profile is active, then only one name appears. If all six profiles are active, then all six appear.

4. Highlight the profile you want, and press **SELECT**.

The profile you select now displays at the top of the Favorite Store Screen each time you access the Favorites Store Screen.

5. Highlight the button you want to store a new favorite in or that you want to change, and press **SELECT**.



- Use the ▲, ▼, ◀ and ▶ keys to select the channel you want stored in the highlighted button. You can also enter the channel number directly.

Note: You can press PAGE to scroll through all the channels.

- Once the channel you want is Highlighted, press **SELECT** to store the channel.



- Repeat Steps 3-5 until you have stored all 10 channels or the ones you want in this profile.
- To return to Normal Viewing, press **0** on your remote or Highlight 0-Return, and press **SELECT**.

Recalling Favorites

To recall your Favorite Channels, follow these steps:

- Press **FAV** to display the Favorites Guide.



The last profile used is always displayed.

- If there are more profiles available, then you can select a different profile while the Favorite Recall Screen is displayed.

- Press again to change to a different profile.

For example, assume that RUSSELL, ANGELA and CALEB are active lists, OK is checked, and each one has at least one channel in them. Each time is pressed, the next Favorite List displays:

- Press to display RUSSELL's Profile
- Press to display ANGELA's Profile
- Press to display CALEB's Profile
- Press to display RUSSELL's Profile etc...

Tuning to a Favorite Channel

- Press to display the Favorite Guide.
- Choose the profile you want by pressing until the name you want displays.
- Highlight the program you want, and press .

The Favorite Guide is removed and the channel selected displays.

Favorite Channel Guide

The Favorite Guide is similar to the Program Guide except it only displays the channels stored in a Favorites Profile.



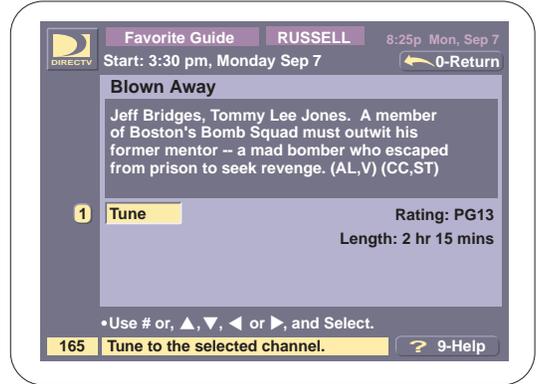
With this guide, you can:

- tune to a program
- get more information about a program
- page through upcoming events
- display a Single Channel Guide for each Favorite
- display a Closed Favorite Recall Guide.

Tuning to Program

1. Use the arrow keys or enter the channel number directly, and then Highlight the program you want.
2. Press **SELECT**.
If the program is showing, your receiver changes to the channel, and removes the Favorite Guide.
3. If the program is an upcoming event, a Program Information screen similar to this displays.

For more information about tuning to an upcoming event, see "Tuning to a Program" on page 49.



Getting More Information

You can get more information about a program in the Favorite Guide. If you Highlight a program and press INFO, a screen similar to this displays:



An INFO box typically contains this information:

- Show Title (Blown Away)
- Year and Show Type (1994, Suspense)
- Description (What's it about)
- Contents (AL, V) Adult Language, Violence
- Closed Caption/Stereo (CC, ST) Closed Caption, Stereo

To remove the information box, press INFO again.

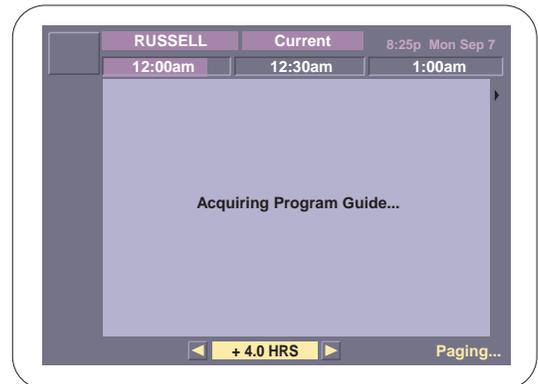
Paging Through Upcoming Events

You can access upcoming programs for the channels listed in your profile, and see what will be on later.

1. Press PAGE on your remote. Notice Current is shown in a horizontal paging window at the bottom of the screen.



2. Use the ► or ◀ key to page forward (horizontally) through upcoming events. As you move forward, you are simply accessing upcoming time slots. Sometimes there is a short pause while the new guide is acquired.



Note: You can only use the arrow keys while paging.

3. Once an extension guide is acquired, it looks similar to this.

The title of the screen shows how far you have advanced. For example, Favorite Guide + 5.0 HRS.



4. Press PAGE again to cancel paging.

Displaying a Single Channel Guide

1. Highlight one of your Favorite Channels.
2. Press **GUIDE** to display a Single Channel Guide.

Closed Favorite Recall Guide

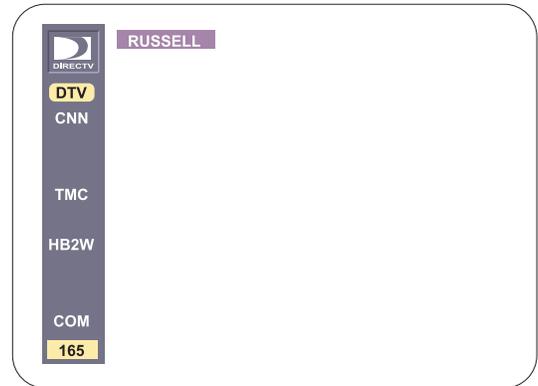
You can close the Favorite Guide to display only the channel logo, the channel abbreviation, and it's number. This is helpful because as you change channels, your screen displays what's currently on for the highlighted channel.

Selecting Open or Closed Guide

Your receiver always remembers which guide was open last, so if you've closed the Favorite Guide, it remains closed each time you press **FAV**. Likewise, if the Favorite Guide is open, it will display in its grid format each time **FAV** is selected.

To change from Open to Closed, follow these steps:

1. Highlight any program in the first time slot.
2. Press the **◀** key.



3. To reopen the Program Guide, press the **▶** key.

Closed Favorite Guide Functions

When the Favorite Guide is closed, you can:

- channel surf
- get more information about the program's provider
- page through the available channels

For information about how these features are used, refer to "Closed Program Guide Functions" on page 52.

Return to Normal Viewing

Press **EXIT** while the Favorite Channel Guide is displayed to remove all screens.

Themes

By selecting Themes you can create guides where the programs are grouped together according to specific categories. For example, you could select all the channels which broadcast Sports. This is similar to Favorites except your guide will list all the channels related to sports instead of ten of your favorite channels.

Suppose you are really just interested in Football and Baseball. Well you can narrow the themes to more specific sub-categories. Your guide will contain all the sports channels you receive that are broadcasting either Football or Baseball. You don't even have to look at a TV magazine or Newspaper to find out what's on. All you have to do is press a few buttons, and the information you want will display right on your screen.

Selecting a Theme

To select and display a Theme guide, follow these steps:

1. Press **THEME** on your remote to display the Themes Screen.



2. Use the **▲**, **▼**, **◀**, or **▶** arrow keys to Highlight the Main Category of your Theme Guide, and press Select to put a check-mark next to what you want.
3. Highlight Grid and press **SELECT** to display the Theme Guide as a grid guide,

—or—

Highlight List and press **SELECT** to display the Theme Guide as a list guide beginning with the current programs first, followed by upcoming events.

- Highlight OK and press Select to display the Sub-Category Screen.



- Use the ▲, ▼, ◀, or ▶ arrow keys to Highlight the Sub-Categories of your Theme Guide, and press **SELECT** to put a check-mark next to those you want. To quickly check or uncheck all the categories, you can:

Highlight All and press **SELECT**, to put a check-mark next to all the sub-categories,

—or—

Highlight None and press **SELECT** to clear all the check-marks and start again.

- Highlight OK and press **SELECT** to store the Sub-Categories and display the guide.



- If you want to cancel Themes and return to Normal Viewing, press **0** or move the cursor to the 0-Return and press **SELECT**.

The Themes Guide

The Theme Guide can be presented in either a grid format similar to a Program Guide or in a List Format similar to a Single Channel Guide. Although the formats are different, both provide the same information and options. When the Themes Guide displays, you'll be able to:

- tune to a program
- get more information about a selected program
- present a Single Channel Guide for a channel
- page through the available channels
- page forward to see upcoming events.

The Grid Themes Guide

If you select Grid on the Category Screen, the Themes Guide displays in a grid similar to the Program Guide.

| PSN | Sports | Current | 3:10p Mon, Sep 7 |
|------|--------------------------|-----------------|------------------|
| | 3:00pm | 3:30pm | 4:00pm |
| HSE | NFL Football 1995 | | |
| PRTK | Halftime Show | Halftime Show | |
| ESPN | The Challenge | SportsCenter | Sports Mania |
| PSN | Madden Hour | NFL Highlights | |
| HTS | NFL Football 1995 | | |
| SPTS | College Football | College Foot... | |
| SUN | College Football | | |
| PASS | Interview with the Stars | | |
| PSW | SportsCenter | Halftime Show | Super Sunday |
| NFL | Sports Highlights | College Foot... | |
| 344 | 3:00pm - 3:30pm | Mon | NR |

Tuning to a Program

- Use the arrow keys or enter the channel directly, and then Highlight the program you want.

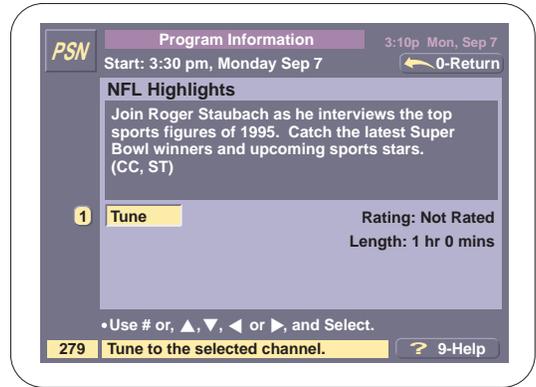
| PSN | Sports | Current | 3:10p Mon, Sep 7 |
|------|--------------------------|-----------------|------------------|
| | 3:00pm | 3:30pm | 4:00pm |
| HSE | NFL Football 1995 | | |
| PRTK | Halftime Show | Halftime Show | |
| ESPN | The Challenge | SportsCenter | Sports Mania |
| PSN | Madden Hour | NFL Highlights | |
| HTS | NFL Football 1995 | | |
| SPTS | College Football | College Foot... | |
| SUN | College Football | | |
| PASS | Interview with the Stars | | |
| PSW | SportsCenter | Halftime Show | Super Sunday |
| NFL | Sports Highlights | College Foot... | |
| 344 | 3:00pm - 3:30pm | Mon | NR |

2. Press **SELECT**.

If the program is showing, your receiver changes to the channel, and removes the Themes Guide.

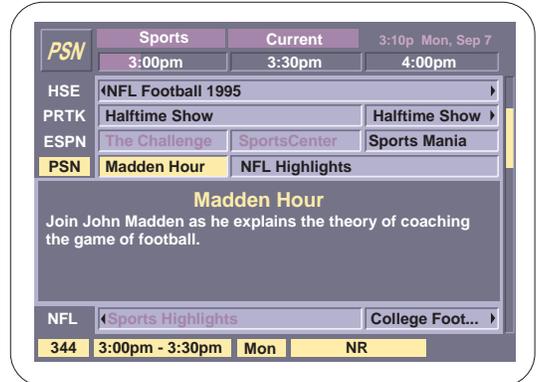
3. If the program is an upcoming event, a Program Information screen similar to this displays.

For more information about tuning to an upcoming event, see “Tuning to a Program” on page 49.



Getting More Information

You can get more information about a program in the Grid Themes Guide. If you highlight a program and press INFO, a screen similar to this displays:



An INFO box typically contains this information:

- Show Title
- Year and Show Type
- Description
- Contents (What’s it about)
- Closed Caption/Stereo (CC, ST)

To cancel the information box and return to the guide, press INFO again.

Single Channel Guide

The Single Channel Guide is a variation of both the Grid and List Theme Guides. It allows you to display the upcoming programs for a single channel. It begins with the current program and continues with upcoming events.

1. Highlight the channel you want from the Grid Themes Guide using either the arrow keys or by entering the numbers.



2. Press **GUIDE** to display the channel in a Single Channel Guide format.

When the Single Channel Guide is displayed, you can:

- tune to a program
- get more information about the selected program
- page through the available programs.

For more information about these features, see “Single Channel Guide” on page 54.

Paging Through Channels

1. Press PAGE on your remote to scan 9 channels at a time.



2. Use the ▲ or ▼ key to scroll through the channels presented in the Themes Guide. The window indicator along the right side of the Paging screen indicates what section of the channels are currently in the viewing window.

Note: You can only use the arrow keys while paging, and if there are fewer than 10 channels in the guide, the paging bar doesn't display.

3. Press PAGE again to cancel paging and return to the Normal Themes Guide.

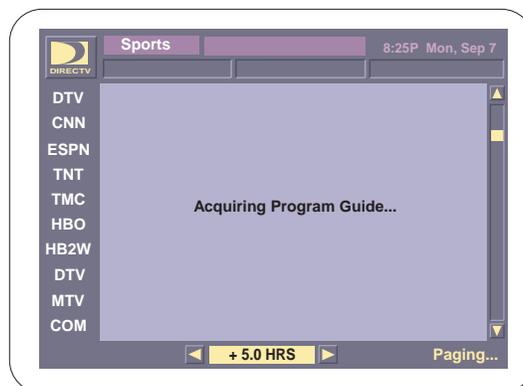
Paging Through Upcoming Events

1. Press PAGE on your remote. Notice Current in the horizontal paging window at the bottom of the screen.



- Use the ► arrow key to page forward (horizontally) through upcoming events. As you move forward, you are simply accessing upcoming time slots.

Sometimes there is a short pause while the new guide is acquired, and you'll see this screen.



Note: You can only use the arrow keys while paging.

- Once an extension guide is acquired, it looks similar to this.

The title of the screen shows how far you have advanced. For example, Themes Movies + 5.0 HRS.



- Press PAGE again to cancel paging and return to the Normal Theme Guide.

Closed Mode

You can close the Themes Guide by Highlighting any program in the first time slot, and pressing the ◀ arrow key. The guide will close like the Closed Program Guide. In the closed mode, you can:

- tune to a channel
- get information about the program's provider
- page through the available channels.

For more information about these features, see "The Closed Program Guide" on page 52.

The List Themes Guide

If you select List on the Category Screen, the Themes Guide displays in a list similar to the Single Channel Guide.



Tuning to a Program

1. Use the arrow keys to Highlight the program you want.

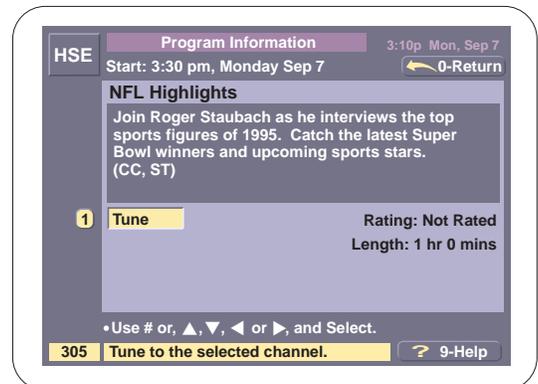


2. Press **SELECT**.

If the program is showing, your receiver changes to the channel, and removes the Themes Guide.

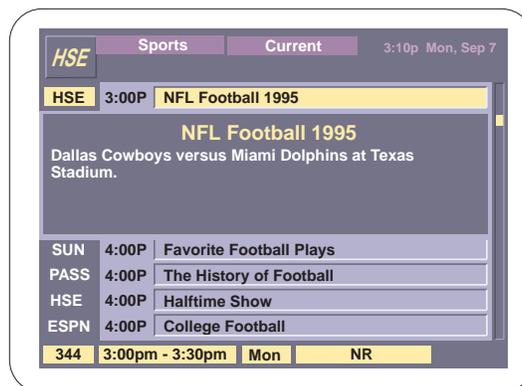
3. If the program is an upcoming event, a Program Information screen similar to this displays.

For more information about tuning to an upcoming event, see "Tuning to a Program" on page 49.



Getting More Information

You can get more information about a program in the List Themes Guide. If you Highlight a program and press INFO, a screen similar to this displays:



An INFO box typically contains this information:

- Show Title
- Year and Show Type
- Description (What's it about)
- Contents
- Closed Caption/Stereo (CC, ST)

To remove the information box and return to the guide, press INFO again.

Single Channel Guide

The Single Channel Guide is a variation of both the Grid and List Theme Guides. It allows you to display the upcoming programs for a single channel in a list which begins with the current program and continues with upcoming events.

1. Highlight the channel you want from the List Themes Guide using either the arrow keys or entering the channel number directly.



2. Press **GUIDE** to display the channel in a Single Channel Guide format.

When the Single Channel Guide is displayed, you can:

- tune to a program
- get more information about the selected program
- page through the available programs

For more information about these features, see “Single Channel Guide” on page 54.

Paging Through Channels

1. Press **PAGE** on your remote to scan 9 channels at a time.



2. Use the **▲** or **▼** key to scroll through the channels presented in the Themes Guide. The window indicator along the right side of the Paging screen indicates what section of the channels are currently in the viewing window.

Note: You can only use the arrow keys while paging, and if there are fewer than 10 channels in the guide, the paging bar doesn't display.

3. Press **PAGE** again to cancel paging and return to the Normal Themes Guide.

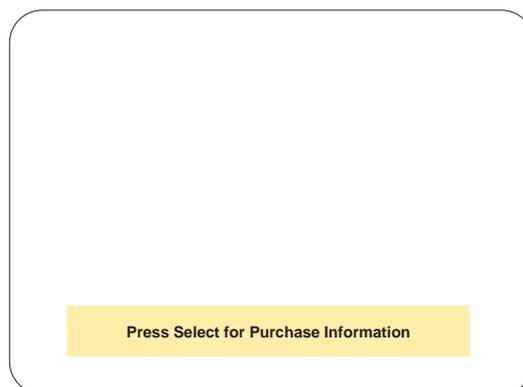
Pay-Per-View (PPV)

What is Pay-Per-View (PPV)

With Pay-Per-View (PPV) you can purchase each program on event-by-event basis. Your service provider offers many PPV channels, so you can always find something new and exciting to watch. And since most movies are broadcast at several different times each day, you'll never have to wait long before a program is available for viewing.

Purchase Information

If you tune to a PPV channel when a program is available, this message displays.



There are three ways to purchase a program:

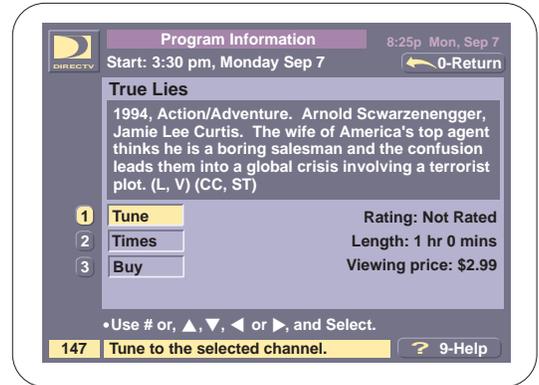
- select a PPV channel with your remote.
- select a PPV program from one of the On-Screen Guides
- call your service provider (there may be an additional fee).

Purchasing an Event

To purchase an event, follow these steps:

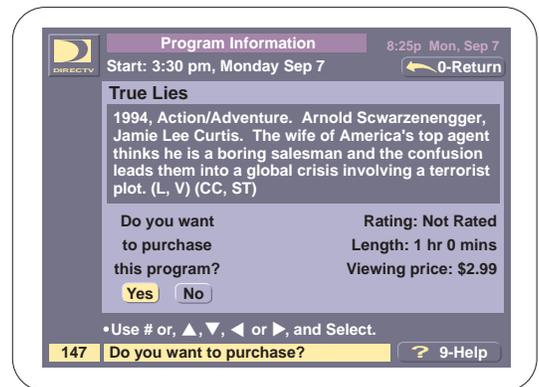
1. Use your remote to tune to the channel with the program you want to purchase and press **SELECT**, or Highlight and Select a PPV event from any of the different on-screen guides.

2. Once the Program Information Screen displays, and you can either purchase the program now or view other show times.



Note If you want to purchase the program at a later time, see “Other Times” below.

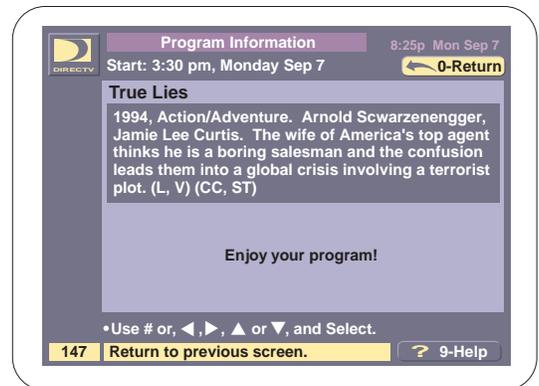
3. Highlight 3-Buy and press **SELECT** to purchase the program.



4. Highlight Yes and press **SELECT** to confirm your purchase,

—or—

Highlight No and press **SELECT** to return to the Program Information Screen.



Other Times

To purchase the PPV program at a later time, follow these steps:

1. Highlight 2-Times and press **SELECT** to view other times the program is shown.

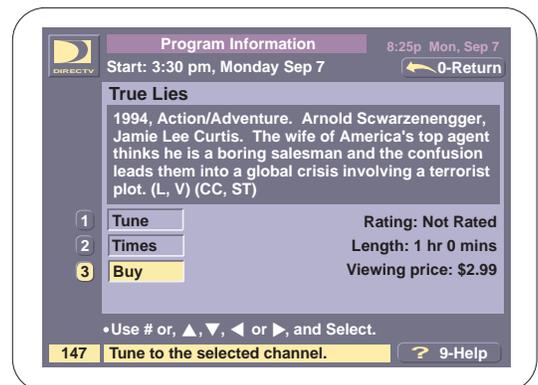
The Other Show Times Screen displays.

If the last show time has a ▼ arrow, this indicates that other times are available, and you should use the ▲ and ▼ keys to scroll through all the times available.



2. Selecting an upcoming program displays the Program Information Screen again.

Choose 3-Buy to purchase the program and store the program in the Future Purchases Screen.

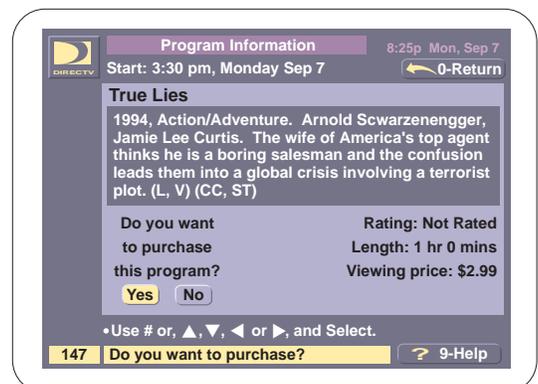


3. Either choice displays the Purchase Confirmation Screen.

Highlight Yes and press **SELECT** to confirm your purchase,

—or—

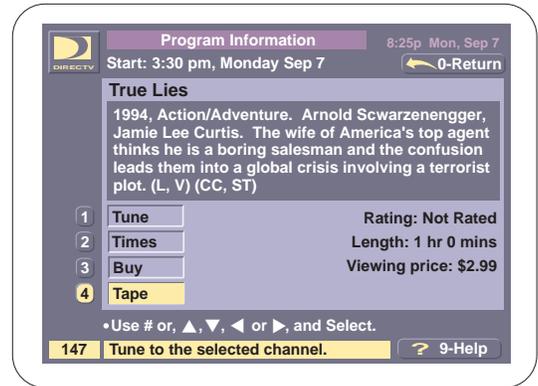
Highlight No and press **SELECT** to return to the Program Information Screen.



Taping Option

Since PPV programs are typically new releases, your service provider may not allow the show to be recorded at its lower view only price. However, you'll be given the option of taping the program at a higher cost.

1. When you select a program with a recording price, a screen similar to this displays.



2. Select the 4-Tape option, to purchase the program for recording. Your service provider may charge a higher price for the taping option. Use the On-Screen programming to tape the program or store the program in the Timer.

Note: You must also program your VCR to start recording when the program begins.

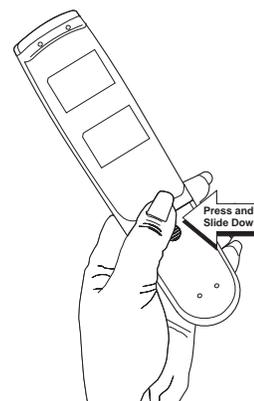
Your Remote Control

Your DIRECTV remote control for the MSD5000 has four different modes of operation. This allows your remote to access and control other equipment in your entertainment system such as your TV, VCR or cable box.

Installing Batteries in Your Remote

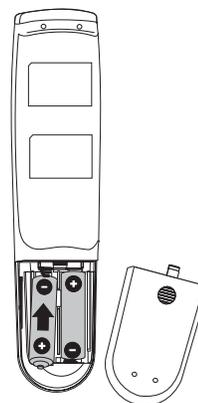
Your remote requires two AA batteries which are included in the packaging provided with your receiver. Follow these steps to install the batteries in your remote:

1. Press on the cover and slide it down.



2. Remove the cover, and place the batteries in the compartment.

Note: Insert the “-” and “+” ends according to the diagram.



3. Replace the battery cover, and slide it into place.



Programming Your Remote

There are four different buttons on the remote which are used to select each mode, and each button has an indicator that lights when it's selected.

Setting the TV/VCR Modes

To program the remote control to control your TV or VCR, follow these steps:

1. Press and hold the  key for 3 seconds. After 3 seconds, the four mode keys begin to flash.
2. After the four mode keys begin flashing, press either the TV or VCR mode key.

Once a mode key is pressed, it stops flashing and all of the other mode keys are turned off.

3. Enter the 3 digit code that matches your particular product.

Note: See the Appendix for a list of codes by product and manufacturer.

4. After all 3 digits are entered, the mode key flashes twice if a correct code has been entered.

For example, to program the remote control for a Mitsubishi TV:

- Press and hold the  key. After 3 seconds, all mode keys start flashing.
 - Press TV. The TV mode key is now selected, and all the others are turned off.
 - Press , , . You will see the TV key flash two times.
5. There are multiple codes for a single brand of product. To see if the remote code is correct, point the remote toward your TV or VCR, and press power, channel  or , etc. If your product doesn't respond to the remote commands, repeat these steps using the next code listed by your manufacturer.

Note Laser discs are programmed under the VCR mode.

Setting the AUX Mode

Programming the AUX mode of the remote control is slightly different because this mode can be used to control a cable box, second TV or VCR, the Bose™ Companion System, or even an additional DIRECTV receiver. Follow these steps to set the AUX mode:

1. Press and hold the  key for 3 seconds. After 3 seconds, the four mode keys begin to flash.
2. After the 4 mode keys begin flashing, press the AUX key.
3. If your going to use your remote to control your Bose™ system, cable box, or laser disc, then skip this step

—or—

If you are going to use AUX to control another DIRECTV receiver, TV, or VCR, press the mode key you want.

(The mode key you select will flash twice, but the **AUX** mode will remain on.)

4. Now enter the 3 digit code for the device you want to program into AUX.

Note: See the Appendix for a list of codes by product and manufacturer.

5. After all 3 digits are entered, the mode key flashes twice if a correct code has been entered.

For example, to program the AUX key for a Mitsubishi TV:

- Press and hold the  key. After 3 seconds, all mode keys start flashing.
 - Press AUX. The AUX key is now selected, and all the others are turned off.
 - Press TV. The TV key flashes twice, and the AUX key remains on.
 - Press **1**, **5**, **0**. You will see the AUX key flash twice.
6. There are multiple codes for a single brand of product. To see if the remote code is correct, point the remote toward the product it should now control, and press power, channel **▲** or **▼**, etc. If the product doesn't respond to the remote commands, repeat these steps using the next code listed for your manufacturer.

Setting the DIRECTV Mode

While the remote is in DIRECTV mode, all remote keys operate your DIRECTV receiver. When there is more than one receiver in a room, there is a possibility that different remotes will interfere with each other. To prevent this, your remote can be programmed with eight different DIRECTV remote codes.

For the remote control to operate correctly, it must match the receiver's remote setting. This means that if you change your remote control's code, you must also change the receiver's code.

Changing the Remote's Code

To change the remote control code, follow these steps:

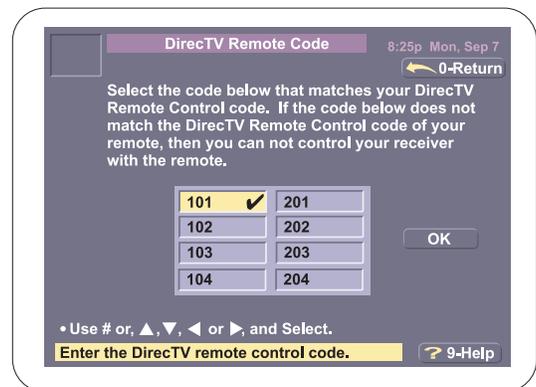
1. Press and hold the  key for 3 seconds. After 3 seconds, the four mode keys begin to flash.
2. Press the DIRECTV mode key.
(Once this key is pressed the other mode keys stop flashing and are turned off.)
3. Enter one of these eight 3-digit codes for your remote.
(101, 102, 103, 104, 201, 202, 203, 204)
4. After the code is entered, the mode key flashes twice if a correct code has been entered.

Note The code on your receiver must match the code on your remote. If not, the remote will not work.

Changing the Receiver's Code

To change the receiver's remote control code, follow these steps:

1. Press TV/DIRECTV and SELECT on the front panel of your receiver at the same time.



2. Highlight the DIRECTV remote control code that matches the code for your remote, and press SELECT.

Note: For the MSD5000, the default remote code is 101.

3. Highlight OK, and press SELECT.

The new code is stored and your receiver will return to Normal Viewing.

Addendum

Remote Control Codes

TV Codes

| | | | | | |
|-------------------------|--|---------------------------|---|-----------------------|--|
| A-Mark | 003 | Hallmark | 178 | Penney | 002, 003, 018, 019, 021, 027, 030, 032, 039, 047, 051, 060, 110, 135, 149, 156, 178, 309 |
| Abex | 032 | Harley Davidson | 043 | Philco | 019, 030, 054, 096 |
| Admiral | 093 | Harman/Kardon | 078 | Philips | 054 |
| Adventure | 046 | Harvard | 068, 180 | Pilot | 019, 030, 039 |
| Aiko | 092 | Hitachi | 032, 038, 056, 097, 145, 151, 173, 279, 409, 413 | Pioneer | 038, 166 |
| Akai | 030, 098 | Ima | 180 | Portland | 019, 039, 092 |
| Alaron | 216 | Infinity | 054 | Priceclub | 060 |
| Alleron | 179, 183 | Janeil | 046 | Prism | 051 |
| Ambassador | 177 | JBL | 054 | Proscan | 047 |
| AOC | 003, 019, 030, 052, 137, 185 | JCB | 000 | Proton | 003, 031, 052, 178, 466 |
| Archer | 003 | JVC | 036, 053, 069, 160, 169, 182 | Pulsar | 017 |
| Astro Text | 379 | Kamp | 216 | Pulser | 019 |
| Audiovox | 003, 180 | Kawasho | 158, 216, 308 | Quasar | 051, 055, 219, 250 |
| Belcor | 019 | Kaypani | 052 | Radio Shack | 019, 032, 039, 165, 180, 409 |
| Bell & Howell | 016, 154 | KEC | 180 | RCA | 018, 019, 029, 038, 047, 090, 135, 174, 254, 278 |
| Bradford | 180 | Kenwood | 019, 030 | Realistic | 019, 030, 032, 039, 056, 154, 165, 178, 180 |
| Broksonic | 003 | Kloss | 024, 046, 078 | Rhapsody | 183, 185, 216 |
| Candle | 030, 046, 056, 186 | KMC | 106 | Runco | 017, 030, 251 |
| Carver | 054 | KTV | 030, 039, 180, 183, 185, 217, 280 | Sampo | 030, 032, 039, 052, 100, 110 |
| CCE | 217, 329 | Logik | 016 | Samsung | 019, 030, 032, 039, 056, 060, 110, 178, 329, 427, 482 |
| Celebrity | 000 | Luxman | 056 | Samsux | 039 |
| Citizen | 030, 039, 046, 056, 060, 092, 186, 280 | LXI | 047, 054, 148, 154, 156, 178 | Sanyo | 107, 146, 154, 159, 484 |
| Clairtone | 185 | Magnavox | 030, 036, 054, 096, 186, 187, 230, 386 | Scimitsu | 019 |
| Concerto | 056 | Majestic | 015, 016 | Scotch | 178 |
| Contec | 157, 158, 180, 185 | Marantz | 030, 054 | Scott | 019, 178, 179, 180, 236, 309 |
| Craig | 161, 180 | Matsui | 217 | Sears | 015, 047, 054, 056, 146, 148, 149, 154, 156, 159, 168, 171, 178, 179, 281 |
| Crown | 039, 180 | Megatron | 003, 145, 178 | Sharp | 039, 093, 153, 157, 165, 281, 386, 491 |
| Curtis Mathes | 030, 039, 060, 154, 415 | MEI | 185 | Shogun | 019 |
| CXC | 180 | Memorex | 016, 056, 106, 150, 154, 178 | Signature | 016 |
| Daewoo | 019, 039, 091, 092, 451 | MGA | 019, 030, 150, 155, 178 | Simpson | 186, 187 |
| Daytron | 019 | Midland | 017, 032, 039, 047, 051, 135 | Sony | 000, 011, 080, 111 |
| Dumont | 017, 019 | Minutz | 021 | Soundesign | 178, 179, 180, 186 |
| Dynatech | 049 | Mitsubishi | 014, 019, 098, 150, 155, 178, 241, 358 | Spectricon | 003, 137 |
| Electroband | 000, 185 | Motorola | 055, 093 | Squareview | 171 |
| Electrohome | 381, 389, 409 | MTC | 019, 030, 049, 056, 060, 091, 185 | SSS | 019, 180 |
| Emerson | 019, 038, 039, 154, 158, 177, 178, 179, 180, 181, 182, 183, 185, 236, 270, 280, 282, 463 | Multitech | 049, 180, 217 | Starlite | 180 |
| Envision | 030 | NAD | 156, 166, 178 | Supre-Macy | 046 |
| Fisher | 154, 159 | NEC | 019, 030, 036, 056 | Supreme | 000 |
| Fujitsu | 179 | Nikko | 030, 092, 178 | Sylvania | 030, 054, 065, 096, 381 |
| Funai | 179, 180 | Noblex | 430 | Symphonic | 171 |
| Futuretech | 180 | NTC | 092 | Tandy | 093 |
| GE | 021, 027, 029, 047, 051, 055, 135, 174, 178, 251, 279, 282 | Onwa | 180 | Tatung | 003, 049, 055, 396 |
| Gibraltar | 017, 019, 030 | Optimus | 154, 166 | Technics | 051, 250 |
| GoldStar | 001, 002, 019, 030, 032, 039, 056, 106, 178, 409 | Optonica | 093, 165 | Technovox | 007 |
| Gradiente | 392 | Orion | 236 | Techwood | 003, 051, 056 |
| Grunpy | 179, 180 | Panasonic | 051, 054, 055, 162, 226, 250, 338 | | |

TV Codes

| | | | | | |
|----------------------|-------------------------------|---------------------------|---------------|------------------|-------------------------------|
| Teknika | 016, 019, 039, 054, 056, 060, | Trical | 157 | Viking | 046 |
| | 092, 150, 179, 180, 186, 312 | Universal | 027 | Wards | 016, 019, 020, 021, 027, |
| Tera | 031 | Vector Research | 030 | | 028, 029, 030, 054, 056, 080, |
| TMK | 056, 177, 178 | Victor | 053 | | 096, 111, 165, 174, 178, 179 |
| Toshiba | 036, 060, 149, 154, 156 | Video Concepts | 098 | Yamaha | 019, 030 |
| Tosonic | 185 | Vidikron | 054, 242 | Zenith | 016, 017 |
| Totevision | 039 | Vidtech | 019, 036, 178 | Zonda | 003 |

Cable Box Codes

| | | | | | |
|------------------------------|--|------------------------------|-----------------------------------|--------------------------|-----------------------------------|
| ABC | 001, 003, 007, 008, 011, 013, 014, 017 | Jerrold | 003, 011, 012, 014, | SL Marx | 040 |
| Antronix | 022, 207 | | 015, 024, 098, 276, 476 | Sprucer | 021, 307 |
| Archer | 022, 039, 153, 207 | Linsay | 440 | Starcom | 003, 015, 098 |
| BBT | 267 | Macom | 033 | Stargate | 015, 040 |
| Belcor | 056 | Magnavox | 027, 334 | Starquest | 015 |
| Cable Star | 056 | Memorex | 000 | StarSight | 422, 542 |
| Cabletenna | 022 | Movie Time | 063, 078, 156 | Sylvania | 001 |
| Cableview | 022 | Novaplex | 618 | Tandy | 258 |
| Century | 153 | NSC | 063, 070, 156 | Tatung | 097 |
| Citizen | 153, 315 | Oak | 007, 019 | Teknika | 146 |
| Colour Voice | 025, 031 | Panasonic | 000, 021, 107 | Telecaption | 221 |
| Comband | 232, 233 | Panther | 637 | Teleview | 040 |
| Comtronics | 040, 060 | Paragon | 000 | Texscan | 001 |
| Contec | 019 | Philips | 025, 027, 031, 153, 242, 290, 334 | TFC | 310 |
| Dae Ryung | 008 | Pioneer | 023, 144, 260, 533 | Timeless | 418 |
| Eastern | 002 | Popular Mechanics | 400 | Tocom | 012, 013, 059 |
| Electricord | 078 | Pulsar | 000 | Toshiba | 000 |
| Focus | 400 | RCA | 021 | Tusa | 015 |
| Garrard | 153 | Realistic | 207 | TV86 | 063 |
| GC Electronics | 056, 207 | Recoton | 400 | Unika | 022, 153, 207 |
| GE | 232, 233 | Regal | 020, 259, 273, 279 | United Artists | 007 |
| Gemini | 015, 057, 070, 242 | Regency | 002 | United Cable | 003 |
| General Instrument | 011, 276, 476 | Rembrandt | 011, 070 | Universal | 022, 039, 056, 077, |
| Goldstar | 040, 144 | Runco | 000 | | 078, 153, 191, 207 |
| Hamlin | 009, 020, 034, 259, 273 | Samsung | 040, 144 | Videoway | 250 |
| Hitachi | 011 | Scientific Atlanta | 006, 008, 017, 277, 477 | Viewstar | 027, 060, 063, 111, 211, 258, 289 |
| Hytex | 007 | Seam | 510 | Zenith | 000, 054, 525 |
| Jasco | 153, 315 | Signal | 015, 040 | Zentek | 400 |
| | | Signature | 011 | | |

Laserdisc Player Codes

| | | | | | |
|------------------------|---------------|----------------------|----------|-------------------------|---------------|
| Aiwa | 203 | Mitsubishi | 059 | RCA | 128, 351 |
| Carver | 064, 194, 323 | NAD | 059 | Realistic | 203 |
| Denon | 172 | NEC | 286 | Samsung | 323 |
| Disco Vision | 023 | Panasonic | 204 | Sega | 023 |
| Funai | 203 | Philips | 064, 194 | Sony | 193, 201, 270 |
| Hitachi | 023 | Pioneer | 023, 059 | Theta Digital | 194 |
| Magnavox | 194, 217, 241 | Quasar | 204 | Yamaha | 217 |
| Marantz | 064, 194 | | | | |

VCR Codes

| | | | | | |
|-----------------------------------|-----------------------------------|------------------------------|------------------------------|------------------------------|-----------------------------------|
| Advantz | 356 | JVC | 008, 041, 067, 206, 207, 384 | Quartz | 046, 155 |
| Adventura | 000 | KEC | 037, 278 | Quasar | 035, 077, 162 |
| Aiko | 278 | Kenwood | 038, 041, 067, 384 | Radio Shack | 000, 037, 325 |
| Aiwa | 000, 406, 436, 468 | KLH | 072 | Radix | 037 |
| Akai | 041, 049, 053, 061, 106, 156, 242 | Kodak | 035, 037 | Randex | 037 |
| American High | 035 | Lloyd | 000 | RCA | 042, 060, 065, 077, 105 |
| Asha | 240 | Lloyd's | 208 | Realistic | 000, 035, 037, 046, 047 |
| Audiovox | 037 | Logik | 072 | Realistic | 048, 062, 066, 104, 240 |
| Beaumont | 240 | LXI | 037 | Ricoh | 034, 253 |
| Bell & Howell | 104 | Magnavox | 035, 039, 081, 103, 110, 149 | Runco | 039 |
| Broksonic | 121, 184, 211, 295, 361 | Magnin | 240 | Salora | 075 |
| Calix | 037 | Marantz | 035, 081, 146 | Samsung | 045, 051, 053, 240 |
| Canon | 035, 102, 167 | Marta | 037 | Sanky | 039, 048 |
| Capehart | 020 | Matsushita | 035 | Sansui | 041, 067, 082, 271 |
| Carver | 081, 146 | MEI | 035 | Sanyo | 046, 047, 104, 240, 268, 372 |
| CCE | 072, 278 | Memorex | 000, 035, 037, 039, 046 | Scott | 043, 045, 121, 184, 210, 211, 212 |
| Citizen | 037, 278 | 047, 048, 104, 240, 268, 299 | | Sears | 035, 037, 042, 046, 047 |
| Colt | 072 | MGA | 043, 061 | 054, 057, 066, 104, 105 | |
| Craig | 037, 047, 072, 240, 271 | MGN Technology | 240 | Sharp | 048, 062 |
| Curtis Mathes | 035, 041, 060 | Minolta | 042, 105 | Shintom | 072 |
| Cybernex | 051, 240 | Mitsubishi | 043, 061, 067, 075 | Shogun | 051, 240 |
| Daewoo | 017, 020, 045, 087, 278 | 0173, 214, 242, 443 | | Singer | 072 |
| Daytron | 020 | Motorola | 035, 048 | Sony | 011, 022, 032, 033 |
| Dynatech | 000 | MTC | 000, 240 | 034, 035, 253, 275 | |
| Electrohome | 037 | Multitech | 000, 072 | STS | 042 |
| Electroponic | 037 | NAD | 058 | Sunpak | 253 |
| Emerex | 032 | NEC | 038, 040, 041, 050 | Sylvania | 000, 035, 043, 081, 103, 110 |
| Emerson | 000, 002, 036, 037, 043, 061 | 067, 082, 104, 457 | | Symphonic | 000, 325 |
| 068, 088, 121, 184, 208, 209, | | Nikko | 037 | Tatung | 041 |
| 211, 212, 278, 294, 295, 361, 479 | | Noblex | 240 | Teac | 000, 041 |
| Fisher | 047, 054, 066, 104 | Olympus | 035, 226 | Technics | 035, 162, 246 |
| Fuji | 033, 035 | Optimus | 037, 048, 058, 104, 162, 432 | Teknika | 000, 035, 037, 052 |
| Funai | 000, 325 | Optonica | 062 | TMK | 036, 208, 240 |
| Garrard | 000, 325 | Orion | 479 | Toshiba | 043, 045, 057, 060 |
| GE | 035, 060, 065, 202 | Panasonic | 035, 077, 102, 162, 225 | 066, 210, 212, 366 | |
| Go Video | 232, 279 | 226, 227, 246, 254, 378, 454 | | Totevision | 037, 240 |
| GoldStar | 018, 037, 038, 471, 480 | Penney | 035, 037, 038 | Unitech | 240 |
| Gradiente | 000, 408 | 040, 042, 054, 240 | | Vector | 045 |
| Grundig | 195 | Pentax | 042, 065, 105 | Vector Research | 038, 040 |
| Harley Davidson | 000 | Philco | 035 | Video Concepts | 040, 045, 061, 221 |
| Harman/Kardon | 038, 075 | Philips | 035, 062, 081, 110, 403 | Videosonic | 240 |
| Harwood | 068, 072 | Pilot | 037 | Wards | 000, 035, 042, 047, 048 |
| Headquarter | 046 | Pioneer | 058, 067, 168 | 060, 062, 072, 149, 212, 240 | |
| HI-Q | 047 | Portland | 020 | XR-1000 | 000, 035, 072 |
| Hitachi | 041, 042, 065, 082, 105, 166 | Protec | 072 | Yamaha | 038 |
| 235, 292, 396 | | Pulsar | 039, 051 | Zenith | 033, 034, 039 |
| Jensen | 041 | Quarter | 046 | | |

Covered under U.S. Pat. 5,329,590

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MEMOREX

LIMITED WARRANTY SATELLITE RECEIVER

We at MEMOREX believe you will be pleased with your new Satellite Receiver. Please read this warranty carefully. Memorex warrants this product to be free from manufacturing defects including original parts and workmanship for a period of ninety (90) days from the date of original purchase in, and if used in, the United States.

Should service be necessary under the warranty, Memorex will provide one of the following two options (at Memorex's discretion) at their authorized warranty service facility listed below, providing the manufacturing defect is verified along with the date of purchase.

- 1. Repair service for ninety (90) days from date of original purchase at no charge for labor and parts.
- 2. Replacement of defective unit with either a new, refurbished, or equivalent model at no charge for (90) days from date of original purchase at no charge.

This warranty is void if the product is:

- A) Damaged through negligence, abuse, misuse, accident, or acts of God.
- B) Used in commercial applications or rentals.
- C) Modified or repaired by anyone other than Memorex or their expressly authorized representative.
- D) Damage resulting from the improper connection to equipment of other manufacturers.

This warranty does not cover:

- A) Cost incurred in the shipping of the product to and from the Memorex authorized repair facility listed.
- B) Damage or improper operation caused by the failure to follow the operating instructions provided with the product.
- C) Routine adjustments to the product which can be performed by the customer as outlined in the owner's manual.
- D) Signal reception problems caused by external factors.
- E) Products not purchased in the United States.
- F) Damage to the products used outside the United States.

In the event that service is required under this warranty, please contact CUSTOMER SERVICE at 1-800-919-3647.

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